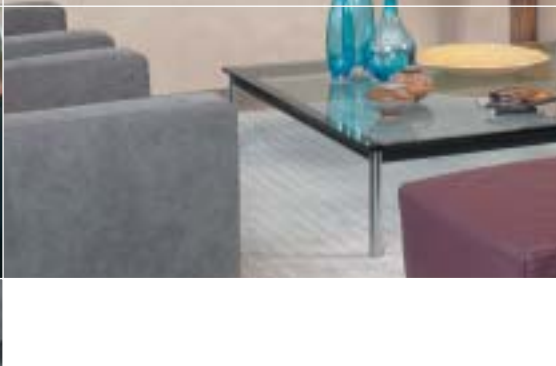
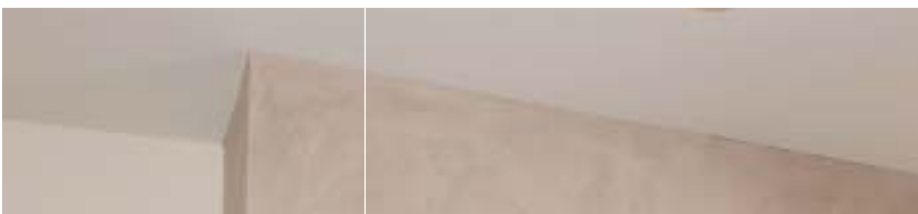


# Yamaha Digital Home Theatre Components

Natural Sound Audio Components



# Image and Sound Quality Worthy



## Dedicated to the Creation of Fine Sound for Over a Century.

Yamaha's involvement with sound began with the production of our first reed organ in 1887. Shortly thereafter, we began making pianos and other instruments, and today we are the world's largest producer of musical instruments. We also operate a worldwide music school, design concert halls and produce innovative electronic instruments. Our audio components have long been recognized as the standard bearers of fine quality, and with the development of Digital Sound Field Processing in 1986, we opened a new era in home entertainment. All of our acoustic and audio expertise is now engineered into LSIs that we design and manufacture ourselves, and these powerful chips are expanding and enhancing entertainment possibilities in the exciting new field of home theatre. Recently, we've also introduced state-of-the-art video components, and now offer everything necessary for the finest in music and movie enjoyment at home.



# of the Name "Home Theatre."



## C O N T E N T S

4	Digital Sound Projectors
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Welcome to a World of Total Quality





## Digital Sound Projectors: A Brand New Style of Home Theatre

Providing true multi-channel surround sound from a single unit, the YSP-1000 and YSP-800 are nothing short of a stylistic revolution in home theatre design. No speakers, no cables, just one elegant unit on a rack or mounted on a wall. The YSP-1000 and YSP-800: a beautiful idea.



### **YSP-1000 System**

YSP-1000 Digital Sound Projector

YST-SW225 Advanced YST II and QD-Bass Subwoofer

Flat TV / Monitor



## YSP-1000 Digital Sound Projector

IntelliBeam CINEMA DSP dts SI NEO6 DOLBY DIGITAL PRO LOGIC II SRS TruBass



IntelliBeam optimizer microphone



Black finish available



YST-SW225 Black:  
Package subwoofer  
with YSP-1000 black  
(description as pg 29)



The YSP-1000 is a perfect match for 42" flat TVs and monitors.



The YSP-800 has been honoured with an EISA Award for Best Product 2005-2006. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

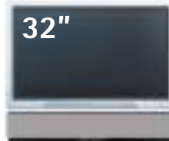


## YSP-800 Digital Sound Projector

IntelliBeam CINEMA DSP dts SI NEO6 DOLBY DIGITAL PRO LOGIC II SRS TruBass



IntelliBeam optimizer microphone



The YSP-800 is a perfect match for 32" flat TVs and monitors.



YST-FSW100:  
Package subwoofer  
with YSP-800 (description as pg 29)

**All-in-one multi-channel sound component — truly unique! An ideal match for 42" flat TVs and monitors.**

**True surround sound.**

- Capable of delivering true multi-channel sound
- Large range of optimum listening positions thanks to a wider soundstage
- 7 CINEMA DSP programmes
- Two Volume Mode with Night Listening Enhancer and TV Equal Volume mode
- Dolby Digital, DTS, Dolby Pro Logic II and DTS Neo:6 compatibility
- TruBass for more dynamic bass sound

**Only one unit, no speaker cables.**

- No need for numerous speakers and cables
- Slim profile to match 42" flat TVs and monitors
- Can be wall mounted or placed in a shelf or rack
- Design is more elegant, less obtrusive than multiple speaker boxes

**Ready to go in minutes.**

- IntelliBeam automated system calibration
- 5 beam modes: 5 Beam, 3 Beam, Stereo+3 Beam, Stereo and Target mode
- IR signal transmission for remote control
- Custom installation compatibility: remote in/out and RS-232C interface
- Yamaha original digital amplifier
- Video input selection
- On-screen display
- Preset remote unit
- 0.1W standby power consumption



The YSP-1000 connection panel offers 2 optical/1 coaxial digital and 2 analogue audio inputs, 3 composite video inputs and 1 composite video output, 2 component video inputs and 1 component video output, subwoofer output, remote in, RS-232C interface. There is also a terminal for the IntelliBeam optimizing microphone and remote out terminal on the front panels.

**SPM-K1:**

Optional wall hanging bracket



**Multi-channel surround sound enjoyment from a single compact component! — the best match for 32" flat TVs and monitors.**

**True surround sound.**

- Capable of delivering true multi-channel sound
- Large range of optimum listening positions thanks to a wider soundstage
- 3 CINEMA DSP programmes
- Dolby Digital, DTS, Dolby Pro Logic II and DTS Neo:6 compatibility
- Two Volume Mode with Night Listening Enhancer and TV Equal Volume mode
- TruBass for more dynamic bass sound

**Only one unit, no speaker cables.**

- No need for numerous speakers and cables
- Compact and slim profile to match 32" flat TVs and monitors
- Can be wall mounted or placed in a shelf or rack
- Design is more elegant, less obtrusive than multiple speaker boxes

**Ready to go in minutes.**

- IntelliBeam automated system calibration
- 5 beam modes: 5 Beam, 3 Beam, Stereo+3 Beam, Stereo and Target mode
- Yamaha original digital amplifier
- On-screen display
- Preset remote unit
- 0.1W standby power consumption



The YSP-800 connection panel offers 2 optical/1 coaxial digital and 2 analogue inputs, video out for on-screen display and subwoofer output. There is also a terminal for the IntelliBeam optimizing microphone on front panel.

**SPM-K8:**

Optional wall hanging bracket



Digital Sound Projectors	YSP-1000	YSP-800
Speakers Section	4cm x 40 beam drivers and 11cm x 2 woofers	4cm x 21 beam drivers and 10cm x 2 woofers
Digital Amplifier	120 W total power: 2 W x 40 + 20 W x 2	82 W total power: 2 W x 21 + 20 W x 2
Dimensions (W x H x D)	1,030 x 194 x 118 mm	800 x 153 x 115 mm
Weight	13 kg	9 kg

## DPX-1300 System: This Is What “Home Theatre” Really Means.

What should high-end home theatre look and sound like? Yamaha supplies the answer with the DPX-1300 System. An unrivaled combination of top-class components for stunning visual clarity and stupendous surround sound. Get ready to explore the full possibilities of home theatre entertainment.



### **DPX-1300 System**

DPX-1300 Digital Cinema Projector

RX-Z9 9.1-Channel Digital Home Theatre Receiver

DVD-S2500 DVD Player

EF Series Home Theatre Speaker Systems

YST-SW1500 Advanced YST and QD-Bass Subwoofer





## DPX-1300 Digital Cinema Projector



HDMI

HQV  
TECHNICAL

NATURAL BLACK

The previous DPX-1000 has been honored with an EISA Award for High-End AV Product 2003-2004. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

Incorporating the most advanced technology and numerous convenient functions, this projector delivers extraordinary video performance, including high contrast ratio.

- Yamaha Natural Black concept • Full HD 10-bit processing • HQV™ (Hollywood Quality Video) technology from Silicon Optix • Yamaha exclusive overshoot suppressor • 5,000:1 contrast ratio • 720p DarkChip3™ DMD™ device • High resolution lens (F=2.7 to 5.0) • Natural colour adjustment system • Seven-segment colour wheel • Motorized iris control for higher contrast • Horizontal and vertical keystone correction with minimal distortion in all directions • Lamp power selector • Versatile interfaces with HDMI and DVI • 28dB quiet operation • Motorized vertical lens shift  $\pm 50\%$

- <Accessories> • PJL-427: Optional lamp cartridge  
• PMT-H35: Optional installation brackets for high ceiling  
• PMT-L31: Optional installation brackets for low ceiling



Control Panel

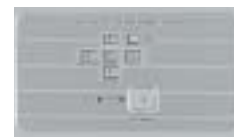


In addition to the input A and input B (component video and RGB signal) terminals, the DPX-1300 rear panel offers an HDMI input terminal, DVI input terminal, composite video input terminals, D4 video input terminal, remote in/out terminal, and RS-232C interface and control out (12V/200mA) terminals.

High-performance DLP projector utilizing Yamaha Natural Black concept with high contrast and brightness.

- Yamaha Natural Black concept • 4,000:1 contrast ratio • High brightness: 1,500 ANSI lumens • Latest 576p DarkChip2™ • Motorised iris control for higher contrast • Seven-segment colour wheel • Low light leakage • Long 4,000-hour lamp life • 30dB quiet operation • DVI-D terminal and HDMI compatibility • Gamma modes: Dynamic, Cinema 1 and Cinema 2 • Colour Temperature modes: High, Mid, Low and Custom • Aspect modes: Normal, Squeeze, Zoom and Through • 3:2 Pulldown detection • Accepts  $\phi 67$  Camera Filters • Remote control with illuminated buttons

- <Accessories> • PJL-625: Optional lamp cartridge  
• PMT-H75: Optional installation brackets for high ceiling (Lens centre: 570-870mm) • PMT-L71: Optional installation brackets for low ceiling (Lens centre: 190mm)



Control Panel



## DPX-530 Home Cinema Projector



NATURAL BLACK



In addition to the input A (5 composites) and input B (5 composites) terminals, the DPX-530 rear panel offers the HDMI input terminal, S-Video and composite video input terminals, D4 video input terminal, and RS-232C interface and control out (12V/200mA) terminals.

Cinema Projectors	DPX-1300	DPX-530
Panel	0.8 inch DMD™ 720p DarkChip3™ x1	0.65 inch DMD™ 576p DarkChip2™ x 1 (aspect ratio: 16:9)
Resolution	1,280 x 720 pixels	1,024 x 576 pixels
Brightness	800 ANSI lumens (maximum)	1,500 ANSI lumens (maximum)
Contrast Ratio	5,000:1 (maximum)	4,000:1 (maximum)
Projection Distance	100" 16:9 screen	
Lamp	270 W	250 W
Acceptable Input	YPbPr	
Colour Format	NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M and PAL-N	480i, 576i, 480p, 576p, 720p (50/60Hz), 1080i (50/60 Hz)
Power Consumption	395 W (standby: 0.1 W)	NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M and PAL-N
Dimensions (W x H x D); Weight	495 x 192.6 x 465.4 mm; 14 kg	340 W (standby: 7 W)
		360 x 102 x 290 mm; 3.9 kg

## Only Yamaha could set these goals for a home theatre receiver — and achieve them!

The RX-Z9 was developed to achieve three ambitious goals: deliver the highest sound quality, provide the highest picture quality, and be the easiest receiver to use. We believe we succeeded in all three areas, but we invite you to judge for yourself — we're confident that the RX-Z9 will totally satisfy your highest expectations for a home theatre receiver.

The DSP-Z9 has been honoured with an EISA Award for Home Theater High End Component 2004-2005. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

## DIGITAL TOP·ART



## RX-Z9 9.1-Channel Digital Home Theatre Receiver

Direct access (macro command, learning capable and preset) remote unit (right) and dedicated GUI (Graphical User Interface) remote unit (left)



- 9-channel powerful surround sound (7 Channels x 170W + 2 channels x 50W) • Digital ToP-ART and High Current Amplification • YPAO (Yamaha Parametric Room Acoustic Optimizer) • On-screen display with GUI (Graphical User Interface) and dedicated remote control • 192 kHz/24-bit DACs for all channels • Pure Direct for high quality sound reproduction • Digital component video up conversion (full) • Progressive Scan video output • Faroudja's TruLife Enhancer • 108MHz/10-bit video D/A conversion • DCDi processing • Dolby Pro Logic IIx and DTS 96/24 compatibility • 39 surround programmes • THX Ultra2 processing • Night Listening mode and SILENT CINEMA • Linear Damping • Digital tone controls • 9-band graphic equalizer • Audio Delay for adjusting lip-sync • Selectable 9-band subwoofer crossover • High grade construction with independent chambers and anti-vibration design • Extra-large toroidal transformer • Extra-large (28,000µF) custom made block electrolytic capacitors • Gold-plated-extruded gigantic speaker terminals • Anti-resonance, Alumite-finish heat sinks • A/V rec out selector with Zone 2 selector • Audio/video custom installation compatibility • NSV (Noise Shaped Video) • Time Base Corrector • Wide-range video bandwidth (100MHz -3 dB)



Oil-Damped Hidden Control Panel offers Video Aux terminals with optical digital and S-Video terminals, AV rec out/Zone 2 selector, multi-jog dial with tone controls (digital), Input Select/Multi-Channel Input switches, Straight/Effect switch, optimizer microphone terminal for YPAO, headphone terminal for enjoying SILENT CINEMA, and so on.

### RX-Z9 extensive connections

- 8\* optical, 4 coaxial digital inputs (fixed and assignable)
- 3 optical digital outputs (fixed and assignable)
- 8\* A/V and 4 audio inputs, 3 A/V and 2 audio (audio signal) outputs, and Zone 2 audio outputs
- 6 component video inputs (fixed and assignable) and 2 monitor component video outputs
- 2 monitor (with S-Video) outputs, 8\* video inputs /3 video outputs (with S-Video), and Zone 2 video (with S-Video) output
- Pre-main and centre couplers, surround, surround back and presence preouts, and subwoofer outputs
- 8-channel external decoder input
- RS-232C interface for touch-panel controller
- Dual programmable control outputs for automatic power on of other components (+12V, 15mA)
- Remote control IR code input/output
- Zone 2 coaxial digital output terminal
- i.LINK (IEEE 1394) digital audio interface
- Pure Direct 2-channel inputs

\* Including Video Aux terminals on front panel





## RX-V2600 System: Home Theatre That Looks and Sounds Exquisite.

This is not the most expensive home theatre system you can buy, but it certainly looks and sounds like it! The RX-V2600 is one of a group of components that will give you everything you hope for in your home theatre. In fact, no matter what Yamaha components you use together, you'll be at the cutting edge of home entertainment.



### RX-V2600 System

RX-V2600 7.1-Channel Digital Home Theatre Receiver  
 DPX-530 Home Cinema Projector  
 DVD-S2500 DVD Player  
 525 A-PMD Series Home Theatre Speaker Systems  
 YST-SW515 Advanced YST and QD-Bass Subwoofer

## An outstanding receiver with HDMI Interface, full analogue video up-conversion to HDMI, de-interlacing and up-scaling, and multi-room custom installation.

The RX-V2600 receiver has a wide array of sophisticated functions that add up to a spectacular home theatre experience. An HDMI interface provides the highest quality video and audio signals possible today. The ability to select Pure Direct shortens the signal path to provide the highest possible audio purity. It even improves image quality with the use of sophisticated video up-conversion that has the highest level of technology in this class of receiver. Naturally, you get popular Yamaha features like Quad-Field CINEMA DSP that delivers an unmatched surround sound experience. And finally, extensive multi-zone capabilities let you enjoy sound in several rooms with full control.

## DIGITAL ToP·ART



## RX-V2600 7.1-Channel Digital Home Theatre Receiver

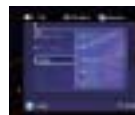
Direct-access remote unit with illuminated buttons (right) and dedicated zone remote unit (left)



- Pure Direct for higher fidelity sound reproduction
- Full analogue video up-conversion and up-scaling to HDMI (1080i/720p) with TBC (Time Base Corrector)
- De-interlacing (480i to 480p or 576i to 576p)
- 2 in/1 out HDMI interface
- Superior zone control with additional zone remote unit
- 7-channel 910W powerful surround sound (130W x 7)
- Digital ToP-ART and High Current Amplification
- Burr-Brown 192 kHz/24-bit DACs for all channels
- Assignable amplifiers for bi-amp connection
- YPAO sound optimization with 6 system memories
- Finest audio-grade parts and devices
- Wide-range video bandwidth (100MHz -3 dB)
- On-screen display with GUI (4 languages: English, French, German and Spanish) and two-line FL display
- 22 surround programmes with 5 THX Select2 programmes
- Dolby Pro Logic IIx and DTS 96/24 compatibility
- Audio Delay
- Extended remote control codes, dual remote terminals for Zone 2 and Zone 3 and dual +12V control outputs
- RS-232C interface for touch panel controller
- Dialogue Lift for dialogue from screen centre
- Selectable 9-band subwoofer crossover
- Subwoofer phase select
- Night Listening Enhancer ensures that all programmes (including Dolby Pro Logic IIx) can be heard clearly at low volumes
- SILENT CINEMA and Virtual CINEMA DSP
- Speaker A, B or A+B selection, with Virtual CINEMA DSP capability in Zone B



YPAO optimizer microphone

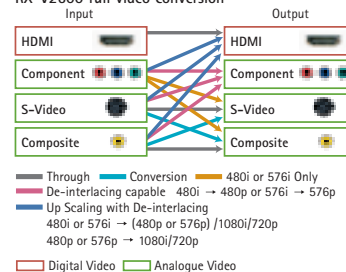


GUI language selection display



Oil-Damped Hidden Control Panel includes S-video input and optical digital input terminals, Main/Zone 2/Zone 3 power on/off switches, rec out/Zone 2 selector, speaker A/B or A+B selector, headphone jack for SILENT CINEMA, YPAO optimized microphone jack, and more.

### RX-V2600 full video conversion



### RX-V2600 extensive connections

- 2 in/1 out HDMI interface for digital audio/video data handling capability
- 5\* optical, 3 coaxial digital inputs (fixed and assignable)
- 2 optical digital outputs (fixed and assignable)
- 6\* A/V and 4 audio inputs, 2 A/V and 2 audio outputs, and Zone 2 audio/video (with tone control) and Zone 3 audio (with tone control) outputs
- 3 component video inputs (fixed and assignable) and 1 monitor component video outputs
- 1 monitor (with S-Video) output
- Front, centre, surround and surround back preouts, and subwoofer output
- 8-channel external decoder input
- RS-232C interface for touch-panel controller
- Dual programmable control outputs (+12V, 15mA)
- Power-amp assignable and dual remote out for Zone 2 and Zone 3
- Detachable power cable

\* Including Video Aux terminals on front panel



**Top-class receiver with many impressive features: HDMI interface, full analogue video up-conversion to HDMI, de-interlacing, multi-room custom installation and dedicated zone remote.**

The RX-V1600 is a high performance, technologically advanced receiver that will provide all the power and control necessary for any high quality home theatre system. Major features include full analogue video up-conversion to HDMI, multi-zone control capability, 7-channel discrete amplification (120W x 7), Yamaha's Digital ToP-ART design concept, YPAO sound optimization, Quad-Field CINEMA DSP and 19 surround programmes including 5 THX Select2 programmes.

**DIGITAL  
ToP-ART**



Direct-access remote unit with luminescent buttons (right) and dedicated zone remote unit (left)

## RX-V1600 7.1-Channel Digital Home Theatre Receiver



- Pure Direct for higher fidelity sound reproduction • Full analogue video up-conversion to HDMI with TBC (Time Base Corrector) • De-interlacing (480i to 480p or 576i to 576p) • 2 in/1 out HDMI interface • Superior zone control with additional zone remote unit • 7-channel 840W powerful surround sound (120W x 7) • Digital ToP-ART and High Current Amplification • Burr-Brown 192 kHz/24-bit DACs for all channels • Assignable amplifiers for bi-amp connection • Wide-range video bandwidth (100MHz -3 dB) • On-screen display and two-line FL display • 19 surround programmes with 5 THX Select2 programmes • Dolby Pro Logic IIx and DTS 96/24 compatibility • Accurate touch volume control • 3 component video inputs • Low-noise discrete power supply for preamp stage • Analogue-digital complete individual circuitry • Audio Delay • High dynamic power and Linear Damping • Extended remote control codes, remote terminal for Zone 2 and Zone 3 and dual +12V control outputs • RS-232C interface for touch panel controller • Dialogue Lift for dialogue from screen centre • Selectable 9-band subwoofer crossover • Subwoofer phase select • Night Listening Enhancer ensures that all programmes (including Dolby Pro Logic IIx) can be heard clearly at low volumes • SILENT CINEMA and Virtual CINEMA DSP • Speaker A, B or A+B selection, with Virtual CINEMA DSP capability in Zone B

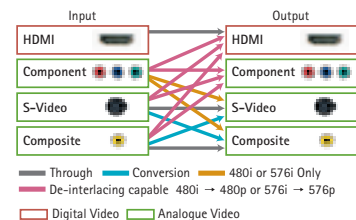


YPAO optimizer microphone



Oil-Damped Hidden Control Panel includes S-video input and optical digital input terminals, Main/Zone 2/Zone 3 power on/off switches, speaker A/B or A+B selector, headphone jack for SILENT CINEMA, YPAO optimized microphone jack, and more.

### RX-V1600 full video conversion



### RX-V1600 extensive connections

- 2 in/1 out HDMI interface for digital audio/video data handling capability
- 5\* optical, 3 coaxial digital inputs (fixed and assignable)
- 2 optical digital outputs (fixed and assignable)
- 6\* A/V and 4 audio inputs, 2 audio outputs, and Zone 2 audio/video (with tone control) and Zone 3 audio (with tone control) outputs
- 3 component video inputs (fixed and assignable) and 1 monitor component video outputs
- 1 monitor (with S-Video) output
- Front, centre, surround and surround back preouts, and subwoofer output
- 8-channel external decoder input
- RS-232C interface for touch-panel controller
- Dual programmable control outputs (+12V, 15mA)
- Power-amp assignable and remote out for Zone 2 and Zone 3
- Detachable power cable

\* Including Video Aux terminals on front panel





## RX-V757 System: Sensational Performance, Elegant Appearance.

The RX-V757 is not only a very good receiver, it is a very good match for a variety of other Yamaha components. If you are interested in adding a look of elegance to your interior, the combination shown here is an excellent choice. and with 7.1 channel output and 700 watts of power, the sound is nothing short of sensational.



### **RX-V757 System**

RX-V757 7.1-Channel Digital Home Theatre Receiver

DVD-S657 DVD Player

225 PMD Series Home Theatre Speaker Systems

YST-SW225 Advanced YST II and QD-Bass Subwoofer

DIGITAL  
TOP·ART
**RX-V757** 7.1-Channel Digital Home Theatre Receiver


SILENT CINEMA

YPAO

YPAO optimizer  
microphone

Top-level 7.1-channel receiver delivering 700W of sound power and superb picture quality, as well as outstanding features like YPAO, Quad-Field CINEMA DSP and Night Listening Enhancer.

- 7-channel 700W powerful surround sound (100W x 7) • Digital ToP-ART and High Current Amplification • YPAO for automatically optimizing the sound in your room • Component video up-conversion (full) • On-screen display • Pure Direct for high quality two-channel or multi-channel sound reproduction • Zone 2 out (assignable power amplifier) and remote in/out for custom installation • High dynamic power and Linear Damping • Dialogue Lift for dialogue from screen centre • Quad-Field CINEMA DSP and 14 surround programmes • Wide-range video bandwidth (60MHz -3 dB) • Phono input • 192 kHz/24-bit DAC for all channels • Selectable 9-band subwoofer crossover • Subwoofer phase select • Analogue mixdown • Straight/Effect switch • Wide-range audio frequency response for DVD-Audio/Super Audio CD • Surround back power-amp assignment for Zone 2/presence channels • 8-channel external decoder input • Night Listening Enhancer ensures that all programmes (including Dolby Pro Logic IIx) can be heard clearly at low volumes • SILENT CINEMA and Virtual CINEMA DSP • Speaker A, B or A+B selection, with Virtual CINEMA DSP capability in Zone B • Learning-capable remote control unit with LCD indication

DIGITAL  
TOP·ART
**RX-V657** 7.1-Channel Digital Home Theatre Receiver


SILENT CINEMA

YPAO

YPAO optimizer  
microphone

7.1-channel receiver offering many exclusive Yamaha functions including YPAO automatic optimization, Quad-Field CINEMA DSP and component video up-conversion.

- 7-channel 665W powerful surround sound (95W x 7) • Digital ToP-ART and High Current Amplification • YPAO for automatically optimizing the sound in your room • Component video up-conversion (full) • On-screen display • Pure Direct for high quality two-channel or multi-channel sound reproduction • Zone 2 out (assignable power amplifier) and remote in/out for custom installation • High dynamic power and Linear Damping • Dialogue Lift for dialogue from screen centre • Quad-Field CINEMA DSP and 14 surround programmes • Wide-range video bandwidth (60MHz -3 dB) • 192 kHz/24-bit DAC for all channels • Selectable 9-band subwoofer crossover • Subwoofer phase select • Analogue mixdown • Straight/Effect switch • Wide-range audio frequency response for DVD-Audio/Super Audio CD • Surround back power-amp assignment for Zone 2/presence channels • Night Listening Enhancer ensures that all programmes (including Dolby Pro Logic IIx) can be heard clearly at low volumes • SILENT CINEMA and Virtual CINEMA DSP • Speaker A, B or A+B selection, with Virtual CINEMA DSP capability in Zone B • 8-channel external decoder input • 6 digital (4 optical and 2 coaxial) inputs • Preset remote control unit



DIGITAL  
ToP-ART



## RX-V557 6.1-Channel Digital Home Theatre Receiver



6.1-channel receiver offering outstanding sound and picture quality, with a wide range of desirable features such as 540W power, Quad-Field CINEMA DSP and component video up-conversion.

- 6-channel 540W powerful surround sound (90W x 6) • Digital ToP-ART and High Current Amplification • Component video up-conversion (full)
- Zone 2 out, remote in/out, control out and speaker B for custom Installation • Dolby Digital EX, DTS-ES, Dolby Pro Logic IIx and DTS 96/24 compatibility • Quad-Field CINEMA DSP and 14 surround programmes
- Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • 192 kHz/24-bit DACs for all channels • Selectable 9-band subwoofer crossover
- Subwoofer phase select • Audio Delay for adjusting lip-sync (0-160ms) • Aluminium front panel • Speaker A, B or A+B selection (via remote unit)



DIGITAL  
ToP-ART



## RX-V457 6.1-Channel Digital Home Theatre Receiver



The previous RX-V440 has been honoured with an EISA Award for Best Home Theater Receiver 2003-2004. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

Full-function, 510W high-power 6.1-channel receiver with special features like Quad-Field CINEMA DSP and Night Listening Enhancer.

- 6-channel 510W powerful surround sound (85W x 6) • Digital ToP-ART and High Current Amplification • Dolby Digital EX, DTS-ES, Dolby Pro Logic IIx and DTS 96/24 compatibility • Direct Stereo for high quality two-channel sound reproduction • Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • Quad-Field CINEMA DSP and 14 surround programmes
- 192kHz/24-bit DACs for all channels • Selectable 9-band subwoofer crossover • Subwoofer phase select • Audio Delay for adjusting lip-sync (0-160ms) • 2 component video inputs and 3 digital inputs • 3 S-Video inputs • Speaker A, B or A+B selection (via remote unit)



## RX-V357 5.1-Channel Digital Home Theatre Receiver



Powerful 500W 5.1-channel surround sound with Quad-Field CINEMA DSP and many other exclusive Yamaha features for a thoroughly enjoyable home theatre experience.

- 5-channel 500W powerful surround sound (100W x 5) • 2 component video inputs • Dolby Digital/Matrix 6.1 and DTS/Matrix 6.1 compatibility plus Dolby Pro Logic II decoding • Night Listening mode and SILENT CINEMA
- Quad-Field and Tri-Field CINEMA DSP and 14 surround programmes
- 192kHz/24-bit D/A converters for all channels • 3 digital audio inputs (fixed and assignable) • Speaker A or B selection • 5-band centre graphic equaliser • Analogue mixdown





# Digital Home Theatre Receiver Comparison



	RX-Z9	RX-V2600	RX-V1600	RX-V757	RX-V657	RX-V557	RX-V457	RX-V357
Channels	9	7	7	7	7	6	6	5
RMS Power (8 ohms, 20Hz–20 kHz)	170W x 7 + 50W x 2	130W x 7	120W x 7	100W x 7	95W x 7	90W x 6	85W x 6	100W x 5 (6ohms, 1kHz)
Amp Configuration	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	
Digital ToP-ART	■	■	■	■	■	■	■	
High Current Amplification	■	■	■	■	■	■	■	
Accurate Touch Volume Control	■	■	■	■	■			
High Dynamic Power	■	■	■	■	■		■	■
Linear Damping	■	■	■	■	■	■	■	
Analogue Mixdown	■	■	■	■	■	■	■	■
High Definition CINEMA DSP	■							
192kHz/24-Bit DACs for All Channels	■	■	■	■	■	■	■	■
Tone Controls	Digital (L/C/R)	Digital (L/C/R/PL/PR)	Digital (L/C/R/PL/PR)	Digital	Digital	■	■	■
Pure Direct	■	■	■	■	■			
Direct Stereo						■	■	
Straight / Effect Switch	■	■	■	■	■	■	■	
Audio Delay	■ (0–240 ms)	■ (0–240 ms)	■ (0–240 ms)	■ (0–160 ms)	■ (0–160 ms)	■ (0–160 ms)	■ (0–160 ms)	
YPAO with Optimizer Microphone	■	■ (with 6 memories)	■	■	■			
Set Menu	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Basic/Manual	Basic/Manual	Basic/Manual
Surround Programme	39	22	19	14	14	14	14	14
THX Processing	Ultra2	Select2	Select2					
i.LINK Digital Audio Interface	■ (dual)							
HDMI Interface		■ (2-in / 1-out)	■ (2-in / 1-out)					
Full Analogue Video Up-Conversion to HDMI		■	■					
De-Interlacing			■					
Up-Scaling to HDMI		■						
On-Screen Display	■ (with GUI)	■ (with GUI)		■	■			
Component Video Inputs/Outputs	6/2	3/1	3/1	2/1	2/1	2/1	2/1	2/1
Video (S-Video) Inputs	8 (8)	6 (6)	6 (6)	5 (5)	5 (5)	4 (3)	4 (3)	4 (0)
Component Video Up-Conversion	Digital, up/down	■	■	■	■	■	■	■
SILENT CINEMA	■	■	■	■	■	■	■	■
Virtual CINEMA DSP	■	■	■	■	■	■	■	■
Night Listening Enhancer	Night Listening mode	■	■	■	■	■	■	Night Listening mode
Selectable Subwoofer Crossover	9-band	9-band	9-band	9-band	9-band	9-band	9-band	90 Hz
Subwoofer Phase Select		■	■	■	■	■	■	
Dialogue Lift	■	■	■	■	■			
Multi-Channel External Decoder Input	8ch	8ch	8ch	8ch	8ch	6ch	6ch	6ch
Pre-Main Couplers	■							
Preout Terminals	9 (2F/C/2S/2SB/2Pre)	7 (2F/C/2S/2SB)	7 (2F/C/2S/2SB)	7 (2F/C/2S/2SB)	7 (2F/C/2S/2SB)			
Subwoofer Out	2 (front/rear)	■	■	■	■	■	■	■
Progressive Scan Processing	DCDi	■						
Assignable Power-Amp		■	■	■	■			
RS-232C Interface	■	■	■					
Zone 2 Out	■ (with coaxial)	■ (audio / video)	■ (audio only)	■ (audio only)	■ (audio only)	■ (audio only)		
Zone 3 Out		■ (audio only)	■ (audio only)					
Zone 2 / 3 Tone Control		■	■					
Zone 2 On-Screen Display		■						
Main/Zone 2/Zone 3 On/Off Switch		■ (on front panel)	■ (on front panel)					
Main/Zone 2 On/Off Switch				■ (on front panel)	■ (on front panel)	■ (on front panel)		
+12V Control Outputs	■ (x 2)	■ (x 2)	■ (x 2)	■	■	■		
Remote In/Out	■ (x 2)	■ (x 2)	■	■	■	■		
Speaker A, B or A+B Selection (Via Remote)	■	■	■	■	■	■	■	Speaker A or B
Digital Inputs (Optical/Coaxial)	12 (8/4*)	8 (5/3)	8 (5/3)	6 (4/2)	6 (4/2)	4 (3/1)	3 (2/1)	3 (2/1)
Front Panel Video Aux Terminals	With optical/S-Video	With optical/S-Video	With optical/S-Video	With optical/S-Video	With optical/S-Video	■	■	
Phono Input	■	■	■	■				
Sleep Timer	■	■	■	■	■	■	■	■
Remote Unit	Direct access	Direct access	Direct access	Learning-capable	Preset	Preset	Preset	Preset
Dedicated Zone Remote Unit		■	■					
Dedicated GUI Remote Unit	■							
Front Panel	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Plastic	Plastic
Volume Knob	Aluminium	Aluminium	Aluminium	Aluminium	Plastic	Plastic	Plastic	Plastic
Dynamic Power/Channel (8/6/4/2 ohms)	210/260/340/580 W	165/205/260/340 W	155/195/250/330 W	135/170/200/245 W	130/165/195/240 W	120/155/190/235 W	115/150/185/230 W	~105/135/165 W
Damping Factor (8 ohms, 20 Hz–20 kHz)	200 (front/centre)	140 (front, speaker A)	140 (front, speaker A)	140 (front, speaker A)	120 (front, speaker A)	120 (front, speaker A)	120 (front, speaker A)	
Frequency Response	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB
Total Harmonic Distortion (20 Hz–20 kHz, CD)	0.005% (85W/8ohms)	0.04% (65W/8ohms)	0.04% (60W/8ohms)	0.06% (50W/8ohms)	0.06% (50W/8ohms)	0.06% (40W/8ohms)	0.06% (40W/8ohms)	0.06% (50W/6ohms)
Signal-to-Noise Ratio (CD, 250 mV)	100dB	100dB	100dB	100 dB	100 dB	100dB	100dB	100dB
Component Video Monitor Out Frequency Response	5Hz–100MHz -3 dB	5Hz–100MHz -3 dB	5Hz–100MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB
Dimensions (W x H x D, mm)	435 x 211 x 471	435 x 171 x 438	435 x 171 x 438	435 x 171 x 420	435 x 171 x 420	435 x 171 x 420	435 x 161 x 416	435 x 151 x 315
Weight	30 kg	17.4 kg	17.4 kg	12.5 kg	12.5 kg	11 kg	11 kg	9 kg

\* Including AC-3 (LD): fixed and assignable to coaxial digital input

## Digital Home Theatre Receiver Surround Programmes

		RX-Z9	RX-V2600	RX-V1600	RX-V757	RX-V657	RX-V557	RX-V457	RX-V357
<b>Compatible Decoding Formats</b>									
	Dolby Digital	●	●	●	●	●	●	●	●
	Dolby Digital EX	●	●	●	●	●	●	●	
	DTS Digital Surround	●	●	●	●	●	●	●	●
	DTS 96/24	●	●	●	●	●	●	●	●
	DTS-ES Matrix 6.1	●	●	●	●	●	●	●	●
	DTS 96/24 ES (6.1)	●							
	DTS-ES Discrete 6.1	●	●	●	●	●	●	●	
	Dolby Pro Logic	●	●	●	●	●	●	●	●
	Dolby Pro Logic II Music	●	●	●	●	●	●	●	●
	Dolby Pro Logic II Movie	●	●	●	●	●	●	●	●
	Dolby Pro Logic II Game	●	●	●	●	●	●	●	●
	Dolby Pro Logic IIx Music	●	●	●	●	●	●	●	
	Dolby Pro Logic IIx Movie	●	●	●	●	●	●	●	
	Dolby Pro Logic IIx Game	●	●	●	●	●	●	●	
	DTS Neo:6 Music	●	●	●	●	●	●	●	
	DTS Neo:6 Cinema	●	●	●	●	●	●	●	
<b>HiFi DSP Programmes</b>									
HALL	Munich A	●	●						
	Frankfurt	●							
	Stuttgart	●							
	Munich B	●							
	Vienna	●	●	●					
	Amsterdam	●							
	Hall G in U.S.A	●							
	Hall H in USA	●							
	Live Concert	●			●	●	●	●	●
CHURCH	Tokyo	●							
	Freiburg	●	●						
	Royaumont	●							
JAZZ CLUB	Village Gate	●							
	Village Vanguard	●							
	The Bottom Line	●	●	●	●	●	●	●	●
ROCK CONCERT	The Roxy Theatre	●	●	●	●	●	●	●	●
	Warehouse Loft	●							
	Arena	●							
CLASSICAL/OPERA	Classical/Opera	●							
	Disco	●	●	●	●	●	●	●	●
ENTERTAINMENT	Party	●							
STEREO	9 Ch Stereo	●	● (7 Ch Stereo)	● (7 Ch Stereo)	● (7 Ch Stereo)	● (7 Ch Stereo)	● (6 Ch Stereo)	● (6 Ch Stereo)	● (5 Ch Stereo)
<b>HiFi DSP Subtotal</b>		21	7	5	5	5	5	5	5
<b>CINEMA DSP Programmes</b>									
ENTERTAINMENT	Game	●	●	●	●	●	●	●	●
	TV Sports	●	● (Variety/Sports)	● (Variety/Sports)	● (Variety/Sports)	● (Variety/Sports)	● (Variety/Sports)	● (Variety/Sports)	● (Variety/Sports)
	Mono Movie	●	●	●	●	●	●	●	●
MUSIC	Pop/Rock	●	●	●	●	●	●	●	●
	DJ	●							
	Classical/Opera	●	●						
MOVIE THEATER	Pavilion	●							
	Spectacle	●	●	●	●	●	●	●	●
	Sci-Fi	●	●	●	●	●	●	●	●
	Adventure	●	●	●	●	●	●	●	●
	General	●	●	●	●	●	●	●	●
STANDARD	Enhanced	●	●	●	●	●	●	●	●
<b>CINEMA DSP Subtotal</b>		12	10	9	9	9	9	9	9
<b>THX Programmes</b>									
	Cinema	●	●	●					
	Ultra2 Cinema	●							
	Select2 Cinema		●	●					
	Music Mode	●	●	●					
	Game Mode		●	●					
	ES Matrix 6.1	●							
	ES Discrete 6.1	●							
	Surround EX	●	●	●					
<b>THX Programme Subtotal</b>		6	5	5	5				
<b>Programme Total</b>		39	22	19	14	14	14	14	14

●: HiFi DSP Programmes    ●: CINEMA DSP    ●: Tri-Field CINEMA DSP Capable    ●: Quad-Field CINEMA DSP Capable    ●: THX Programmes

## HTiB: Everything You Need for Great Sound in Smartly Styled Component Packages.

An all-in-one package of components designed to match in terms of both performance and appearance is highly appealing. Especially when they sound and look as good as the packages on the following pages. From full-size to compact, these systems are styled for all types of rooms. And best of all, whichever one you choose, you get fine Yamaha quality sound and a wide array of extremely useful features.



### YHT-165

HTiB (Home Theatre in a Box)

The YHT systems are only available in Australia.





## YHT-840BG Digital Home Theatre 7.1-Channel Package

DIGITAL ToP-ART CINEMA DSP SILENT CINEMA YPAO DOLBY DIGITAL DTS ES 6+1 Advanced YST-QD-Bass Preset

- Digital Home Theatre Receiver HTR-5860
- Digital Home Theatre Black Gloss Piano Finish Speaker Systems NS-555/NS-333/NS-C444
- Advanced YST II/QD-Bass Technology Subwoofer YST-SW515
- 7-Channel 665W Powerful surround sound (95W x 7) ■ Dolby Pro Logic IIx, DTS96/24 Compatibility ■ YPAO ■ Pure Direct ■ Beautiful Black Gloss Piano Finish Speakers with Elegant Elliptical Form ■ Energetic Subwoofer with Advanced YST II/QD-Bass Technology and Linear Port



YPAO Optimiser Microphone



## YHT-740B Digital Home Theatre 6.1-Channel Package

DIGITAL ToP-ART CINEMA DSP SILENT CINEMA YPAO DOLBY DIGITAL DTS ES 6+1 Advanced YST-QD-Bass Preset

- Digital Home Theatre Receiver HTR-5850
- Digital Home Theatre Speaker Systems NS-325F/NS-M325/NS-C325
- Advanced YST II/QD-Bass Technology Subwoofer YST-SW325
- 6-Channel 540W Powerful Surround Sound (90W x 6) ■ Luxurious Real Wood Speaker Systems and Subwoofer to Deliver High Quality Sound
- Energetic Subwoofer with Advanced YST II/QD-Bass Technology and Linear Port



## YHT-640BH Digital Home Theatre 6.1-Channel Package

DIGITAL ToP-ART CINEMA DSP SILENT CINEMA YPAO DOLBY DIGITAL DTS ES 6+1 Advanced YST-QD-Bass Preset

- Digital Home Theatre Receiver HTR-5840
- Digital Home Theatre Speaker Systems NS-225F/NS-M225/NS-C225
- Advanced YST II/QD-Bass Technology Subwoofer YST-SW225
- 6-Channel 510W Powerful Surround Sound (85W x 6) ■ Luxurious Real Wood Birch Finish, Slim Speaker Systems and Subwoofer to Deliver High Quality Sound
- Energetic Subwoofer with Advanced YST II/QD-Bass Technology and Linear Port



## YHT-540C Digital Home Theatre 6.1-Channel Package

DIGITAL TOP-ART CINEMA DSP SILENT CINEMA DOLBY DIGITAL DTS ES 6+1 D-Sub 1080p QD-Bass PRESENT

- Digital Home Theatre Receiver HTR-5840
- Digital Home Theatre Speaker System NS-50F
- Digital Home Theatre Speaker Package NS-P70
- Advanced YST/QD-Bass Technology Subwoofer YST-SW215
- 6-Channel 510W Powerful Surround Sound (85W x 6) ■ Tower Front Speakers to Reproduce Powerful Sound ■ Elegant Cherry Finish Speakers/Subwoofer to Match Furniture



## YHT-440S Digital Home Theatre 5.1-Channel Package

CINEMA DSP SILENT CINEMA DOLBY DIGITAL DTS PRESENT

- Digital Home Theatre Receiver HTR-5830
- Digital Home Theatre Speaker Systems NS-125F/NS-P125
- Advanced YST/QD-Bass Technology Subwoofer YST-SW030
- 5-Channel 500W Powerful Surround Sound (100W x 5)
- Tower Front Speaker System to Match Flat Screen Monitor



YHT-440B Black system available

## YHT-340BG Digital Home Theatre 6.1-Channel Package

DIGITAL TOP-ART CINEMA DSP SILENT CINEMA DOLBY DIGITAL DTS ES 6+1 D-Sub 1080p QD-Bass PRESENT

- Digital Home Theatre Receiver HTR-5840
- Digital Home Theatre Speaker Package NS-P436
- 6-Channel 510W Powerful Surround Sound (85W x 6)
- Audio Delay for Adjusting Lip-Sync (0-160ms)
- Elegant Black Gloss Piano Finish Speaker Package



YHT-340C Cherry system available



## YHT-330S Digital Home Theatre 6.1-Channel Package

- DIGITAL ToP·ART CINEMA DSP SILENT CINEMA DOLBY DIGITAL DTS ES 6+1 ADVANCED YD-T QD-BASS PRESENT
- Digital Home Theatre Receiver HTR-5840
  - Digital Home Theatre Speaker Package NS-P336
  - 6-Channel 510W Powerful Surround Sound (85W x 6)
  - High Quality Compact Speaker Package to Deliver Energetic Sound
  - Ideal System for Movies and Music



## YHT-230S Digital Home Theatre 6.1-Channel Package

- DIGITAL ToP·ART CINEMA DSP SILENT CINEMA DOLBY DIGITAL DTS ES 6+1 ADVANCED YD-T QD-BASS PRESENT
- Digital Home Theatre Receiver HTR-5840
  - Digital Home Theatre Speaker Package NS-P116
  - 6-Channel 510W Powerful Surround Sound (85W x 6)
  - Yamaha Exclusive Quad-Field CINEMA DSP
  - Night Listening Enhancer



## YHT-165 Digital Home Theatre 5.1-Channel Package

- CINEMA DSP SILENT CINEMA DOLBY DIGITAL DTS ES 6+1 ADVANCED YD-T PRESENT
- Digital Home Theatre Receiver HTR-5830
  - Digital Home Theatre Speaker Package NS-P110
  - 5-Channel 500W Powerful Surround Sound (100W x 5)
  - DTS-ES, Dolby Digital and Dolby Pro Logic II Decoding
  - 14 Surround Programmes

### Optional DVD Player for YHT Systems



## DV-S5860 DVD Player



Exceptionally good image with outstanding picture and sound quality, DVD-Audio/Super Audio CD playback.

- Progressive Scan (PAL/NTSC) • 108MHz/12-bit video DAC • DVD-Audio/Super Audio CD playback • CD upsampling • 192kHz/24-bit audio DAC • Audio Direct • Versatile format and disc compatibility such as VR format recorded DVD-RW (with CPRM) and DVD+R Double Layer (DL) playback • MP3, JPEG, DivX and WMA multisession playback with navigation display • Picture CD (such as JPEG) playback with thumbnail display • JPEG/MP3 simultaneous playback for slide show • PAL/NTSC conversion
- [Specifications are on p.24]



## YHT System Comparison

YHT system series are only available in Australia.

	YHT-840BG	YHT-740B	YHT-640BH	YHT-540C	YHT-440S/YHT-440B	YHT-340BG/YHT-340C	YHT-330S	YHT-230S	YHT-165
<b>High Sound Quality</b>									
Channels	7.1	6.1	6.1	6.1	5.1	6.1	6.1	6.1	5.1
Discrete Amp Configuration	■	■	■	■		■	■	■	
Digital ToP-ART and High Current Amplification	■	■	■	■		■	■	■	
192kHz/24-Bit D/A Converter	■	■	■	■	■	■	■	■	■
Accurate Touch Volume Control	■								
Pure Direct	■								
Direct Stereo		■		■			■	■	
Selectable 9-Band Subwoofer Crossover / Subwoofer Phase Select	9-step	9-step	9-step	9-step		9-step	9-step	9-step	
High Dynamic Power	■	■	■	■	■	■	■	■	■
Linear Damping	■	■	■	■		■	■	■	
Analogue Mixdown	■	■	■	■	■	■	■	■	■
<b>Surround Realism</b>									
Surround Programme	14	14	14	14	14	14	14	14	14
Quad-Field CINEMA DSP	■	■	■	■	■ (Matrix 6.1)	■	■	■	■ (Matrix 6.1)
Dolby Digital EX/DTS-ES	■	■	■	■		■	■	■	
Dolby Pro Logic IIx	■	■	■	■	Dolby Pro Logic II	■	■	■	Dolby Pro Logic II
DTS 96/24	■	■	■	■		■	■	■	
DTS Neo:6	■	■	■	■		■	■	■	
Audio Delay for Adjusting Lip-Sync (0-160 ms)	■	■	■	■		■	■	■	
Night Listening Enhancer	■	■	■	■	Night Listening mode	■	■	■	Night Listening mode
Dialogue Lift	■								
SILENT CINEMA	■	■	■	■	■	■	■	■	■
5-Band Centre Graphic Equaliser	■	■	■	■	■	■	■	■	■
<b>Advanced Facilities</b>									
YPAD for Automatic Optimisation	■								
On-Screen Display	■								
Speaker A, B, A+B Selection	■	■	■	■	Speaker A or B	■	■	■	Speaker A or B
9-Channel Speaker Outputs with Zone 2 Speaker Out	■								
Multi-Channel External Decoder Input	8-channel	6-channel	6-channel	6-channel	6-channel	6-channel	6-channel	6-channel	6-channel
Preout Terminals	7 (2F/C/2S/2SB)								
Subwoofer Out	■	■	■	■	■	■	■	■	■
Front Panel Video Aux Terminals	■ (With optical/S-Video)	■	■	■		■	■	■	
Preset Remote Control Unit	■	■	■	■	■	■	■	■	■
<b>High Picture Quality</b>									
Component Video Up-Conversion	■								
S-Video Up-Conversion			■	■		■	■	■	
HDTV (720p/1080i) Compatibility	■	■	■	■	■	■	■	■	■
Wide-Range Video Bandwidth (60MHz -3 dB)	■	■	■	■	■	■	■	■	■
Component Video Inputs/Outputs	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Video (S-Video) Inputs	5 (5)	4 (3)	4 (3)	4 (3)	4 (0)	4 (3)	4 (3)	4 (3)	4 (0)
Video (S-Video) Outputs (except monitor out)	2 (2)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)
Digital Inputs (Optical/Coaxial)	6 (4/2)	5 (3/1)	4 (3/1)	4 (3/1)	3 (2/1)	4 (3/1)	4 (3/1)	4 (3/1)	3 (2/1)
Digital Outputs (Optical)	1								
<b>Receiver Specifications</b>									
Minimum RMS Output Power (8 ohms, 20 Hz-20 kHz)	(0.06% THD)	(0.09% THD)	(0.09% THD)	(0.09% THD)	(6 ohms, 0.9% THD)	(0.09% THD)	(0.09% THD)	(0.09% THD)	(6 ohms, 0.9% THD)
Front Channels	95 W + 95 W	90 W + 90 W	85 W + 85 W	85 W + 85 W	100 W + 100 W	85 W + 85 W	85 W + 85 W	85 W + 85 W	100 W + 100 W
Centre Channel	95 W	90 W	85 W	85 W	100 W	85 W	85 W	85 W	100 W
Surround Channels	95 W + 95 W	90 W + 90 W	85 W + 85 W	85 W + 85 W	100 W + 100 W	85 W + 85 W	85 W + 85 W	85 W + 85 W	100 W + 100 W
Surround Back Channels	95 W + 95 W	90 W	85 W	85 W		85 W	85 W	85 W	
Dynamic Power/Channel (8/6/4/2 ohms)	130/165/195/240 W	120/155/190/235 W	115/150/185/230 W	115/150/185/230 W	-/105/135/165 W	115/150/185/230 W	115/150/185/230 W	115/150/185/230 W	-/105/135/165 W
Damping Factor (8 ohms, 20 Hz-20 kHz)	120 (speaker A)	120 (speaker A)	120 (speaker A)	120 (speaker A)		120 (speaker A)	120 (speaker A)	120 (speaker A)	
Frequency Response	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB	10 Hz-100 kHz +0, -3 dB
Total Harmonic Distortion (20 Hz-20 kHz, CD)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (6 ohms)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (6 ohms)
Signal-to-Noise Ratio (CD, 250 mV)	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB
Monitor Out Frequency Response (Component Video Signal)	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB	5 Hz-60 MHz -3 dB
Dimensions (W x H x D, mm)	435 x 171 x 420	435 x 171 x 420	435 x 161 x 416	435 x 161 x 416	435 x 151 x 315	435 x 161 x 416	435 x 161 x 416	435 x 161 x 416	435 x 151 x 315
Weight	12.5 kg	11 kg	11 kg	11 kg	9 kg	11 kg	11 kg	11 kg	9 kg
<b>Speakers</b>									
Front Speakers (Woofer)	Dual 20cm PMD	Dual 13cm A-PMD	Dual 8cm PMD	Dual 16cm	Dual 8cm	Coaxial (5cm+1.3cm)	Dual 5cm	Dual 5cm full-range	Dual 5cm full-range
(Midrange)	13cm cone								
(Tweeter)	2.5cm dome	3cm dome	3cm dome	3cm dome	22cm balanced-dome	5cm cone	2.5cm balanced-dome		
Centre Speaker (Woofer)	Dual 13cm PMD	Dual 10cm A-PMD	Quad 6.5cm PMD	10cm cone	Dual 8cm cone	Coaxial (5cm+1.3cm)	Dual 5cm	Dual 5cm full-range	Dual 5cm full-range
(Tweeter)	2.5cm dome	3cm dome	3cm dome	2.2cm dome	22cm balanced-dome	5cm cone	2.5cm balanced-dome		
Surround Speakers (Woofer)	13cm PMD	10cm A-PMD	Dual 8cm PMD	10cm cone	Dual 8cm cone	Coaxial (5cm+1.3cm)	Dual 5cm	Dual 5cm full-range	Dual 5cm full-range
(Tweeter)	2.5cm dome	3cm dome	3cm dome	2.2cm dome	22cm balanced-dome	5cm cone	2.5cm balanced-dome		
Subwoofer Output Power	250W	170W	250W	150W	130W	120W	140W	100W	100W
Subwoofer Driver	25cm cone	20cm cone	20cm cone	20cm cone	20cm cone	16cm cone	20cm cone	16cm cone	16cm cone

## CinemaStation: Impressive Performance from Beautifully Slim, Stylish Form.

CinemaStation will change your perception of home theatre. One slim, beautifully designed receiver with built-in DVD player. Elegant speakers. And a strikingly handsome, powerful subwoofer. All of which combine to provide surround sound performance and versatile capabilities surpassing most of the bigger, pricier systems available. With many of Yamaha's most advanced technologies and features, CinemaStation will give you the genuine satisfaction of a truly impressive home theatre system.

# CinemaStation

[www.CinemaStation.com](http://www.CinemaStation.com)



**AIR SURROUND**
















Using Yamaha's exclusive Air Surround system, which involves digital signal processing and the use of sound reflections, it provides a multi-channel listening experience. Stereo sound can also be enjoyed. For those who do not want to set up rear speakers, this is an ideal way to enjoy multi-channel surround sound, especially in small rooms. A Dolby Virtual Speaker mode is also available. The amplifier unit can be used horizontally or vertically.



**AIR SURROUND**














- Super Audio CD and DVD-Audio playback compatibility • Total 450W high power (75W x 6) • Progressive Scan (NTSC/PAL) • 108MHz/12-bit video DAC
- 16cm Advanced YST for powerful bass response • CD upsampling
- 192kHz/24-bit audio DAC • 2-way satellite and centre speakers
- Magnetic shielding allows placement near a TV (all speakers)
- Versatile format and disc compatibility • On-screen display
- MP3, JPEG, DivX and WMA multisection playback with navigation display • Audio Delay for adjusting lip-sync • Picture CD (such as JPEG) playback • PAL<->-NTSC conversion



- 4 DSP programme icon buttons (on front panel and remote unit) • Dolby Digital, DTS and Dolby Pro Logic II compatibility • Powerful 32-bit Yamaha LSI for CINEMA DSP processing • SILENT CINEMA and Night Listening Mode
- QD-Bass technology and YST subwoofer for powerful bass response
- 5cm spruce cone full-range driver (5 satellites) • Magnetic shielding allows placement near a TV (all speakers) • 5.1/Virtual switch for using either 5.1-channel system or 3.1-channel system (virtual 5.1) • Wall mountable, angle adjustable satellite speakers for optimum positioning • Extensive connections: 3 digital inputs



CinemaStation		DVX-S30	DVX-S301	TSS-15
Amplifier Section				
Output Power	5 Channels	35 W x 5 (6 ohms, 1 kHz, 10% THD)	75 W x 5	6 W x 5 (Total 48 W=6 W x 5 + 18 W)
	Subwoofer	100 W	75 W	18 W
Dimensions (W x H x D); Weight		215 x 70 x 315 mm; 2.6 kg	360 x 53 x 310 mm; 2.7 kg	102 x 260 x 196 mm; 1.3 kg
DVD Player Section				
Frequency Response	(CD)	4 Hz-20 kHz	4 Hz-20 kHz	
	(DVD, 48 kHz sampling)	4 Hz-22 kHz	4 Hz-22 kHz	
	(DVD, 96 kHz sampling)	4 Hz-44 kHz	4 Hz-44 kHz	
Dimensions (W x H x D); Weight		215 x 70 x 315 mm; 2.4 kg	360 x 53 x 310 mm; 2.7 kg	
Speaker Section		All speakers are magnetic shielding	All speakers are magnetic shielding	All speakers are magnetic shielding
System Frequency Response		30 Hz-25 kHz	40 Hz-20 kHz	
[Satellites] Dimensions (W x H x D); Weight		240 x 80 x 105 mm; 1.4 kg x 2	84 x 181 x 78 mm; 0.6 kg x 4	70 x 91 x 110 mm; 0.4 kg x 4
[Centre Speaker] Dimensions (W x H x D); Weight			300 x 84 x 78 mm; 1 kg	184 x 81 x 141 mm; 1.1 kg
[Subwoofer] Dimensions (W x H x D); Weight		280 x 325 x 289 mm; 6.2 kg	200 x 390 x 382 mm; 11.5 kg	220 x 239 x 220 mm; 3.4 kg



# DVD Players: DVD's New Level of High Class Entertainment.



**DVD-S2500** DVD Player



HDMI LSI (left) and i.LINK (IEEE1394) LSI



**DVD-C750** DVD Changer



**Yamaha Patented PlayXchange**  
The DVD-C750 gives you the benefits of extended playing time and direct selection from all discs. And with PlayXchange, you can change discs while the current one continues to play.



**DVD-S657** DVD Player



High quality DVD-Audio/Super Audio CD player will be the focal point of an impressive home theatre system.

- Progressive Scan (NTSC/PAL) • DVD-Audio and Super Audio CD playback
- Faroudja DCDi processing • HDMI + HDCP compatibility: 480p, 576p, 720p, 1080i digital video out capability • Dual i.LINK (IEEE1394): DVD-Audio and Super Audio CD digital audio data transfer capability • 216MHz/12-bit video DAC • 192kHz/24-bit (DVD-Audio) and Super Audio CD compatible audio DAC • Video Off mode • MP3\*\*\* multisession (ID3Tag) playback • Picture CD and JPEG\*\*\* multisession playback • Gold-plated terminals for all pin jacks • Aluminium front panel



The DVD-S2500 rear panel offers optical and coaxial digital audio output, component video output (progressive/interlace), S-Video and composite video output, mixed 2-channel audio output, 5.1-channel discrete audio output, HDMI, dual i.LINK (IEEE1394), remote control input/output terminals, detachable power cable and SCART terminal.



Designed for extremely high sound AND picture quality, the DVD-C750 also offers a wide range of advanced features for greater movie and music enjoyment.

- Progressive Scan (PAL/NTSC) • 108MHz/12-bit video D/A • Video picture mode • CD upsampling • DVD-Audio and Super Audio CD playback compatibility • 192kHz/24-bit audio D/A converter • Yamaha Patented "PlayXchange" • Versatile format and disc compatibility
- On-screen display • MP3, JPEG, DivX and WMA\*\*\* multisession playback with navigation display • Picture CD (such as JPEG) playback • JPEG/MP3 simultaneous playback for slide show
- Multiple zoom • CD Text display • PAL/NTSC conversion



The DVD-C750 rear panel offers optical and coaxial digital audio output, component video output (progressive/interlace), S-Video and composite video output, mixed 2-channel audio output and 5.1-channel audio output terminals.



Slim Progressive Scan DVD player with outstanding picture and sound quality, plus DVD-Audio/Super Audio CD playback.

- Progressive Scan (PAL/NTSC) • 108MHz/12-bit video DAC • DVD-Audio/Super Audio CD playback • CD upsampling • 192kHz/24-bit audio DAC • Audio Direct • Versatile format and disc compatibility such as VR format recorded DVD-RW\* (with CPRM) and DVD+R\* Double Layer (DL) playback • MP3, JPEG, DivX and WMA\*\*\* multisession playback with navigation display • Picture CD (such as JPEG) playback with thumbnail display • JPEG/MP3 simultaneous playback for slide show • PAL/NTSC conversion



The DVD-S657 rear panel offers optical and coaxial digital audio outputs, component video output, 5.1-channel audio output, mixed 2-channel audio output, and S-Video and composite video output terminals.



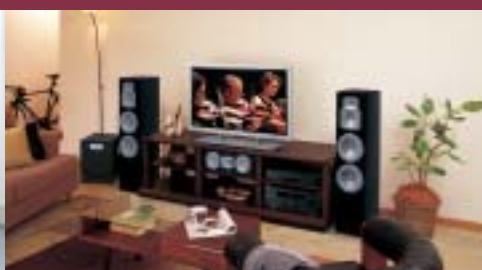
DVD Players	DVD-S2500	DVD-C750	DVD-S657	DV-S5860 †
DVD-Audio / Super Audio CD Playback	Yes	Yes	Yes	Yes
MP3 / JPEG Playback	Multisession	Multisession	Multisession	Multisession
DivX / WMA Playback		Multisession	Multisession	Multisession
DVD+R DL Playback			Yes	Yes
VR Format Recorded DVD-RW Playback			Yes	Yes
Picture CD Playback	Yes	Yes	Yes	Yes
Video D/A Converter	216 MHz/12-bit	108 MHz/12-bit	108 MHz/12-bit	108 MHz/12-bit
Audio D/A Converter	192 kHz/24-bit	192 kHz/24-bit	192 kHz/24-bit	192 kHz/24-bit
Signal-to-Noise Ratio (CD)	115 dB	105 dB	110 dB	105 dB
Frequency Response (CD/VCD)	2 Hz-20 kHz	2 Hz-20 kHz	2 Hz-20 kHz	2 Hz-20 kHz
(DVD 96 kHz sampling)	2 Hz-44 kHz	2 Hz-44 kHz	2 Hz-44 kHz	2 Hz-44 kHz
Dynamic Range (DVD 48 kHz, 24 Bit)	107 dB	95 dB	100 dB	95 dB
Harmonic Distortion + Noise (1 kHz)	0.0017%	0.003%	0.003%	0.003%
Dimensions (W x H x D); weight	435 x 100 x 314 mm; 5.6 kg	435 x 75 x 425 mm; 5.5 kg	435 x 51 x 310 mm; 3.8 kg	435 x 51 x 310 mm; 2.8 kg

† DV-S5860 is available only for YHT system series and available in Australia. This product description is on p.20. • DVD Players are only available in Australia and New Zealand.

\* Only compatible with discs that have been finalised when recording is completed. Some discs may not play due to disc characteristics or recording conditions. \*\* Only compatible with discs that have been recorded in CD-DA format or Video CD format and Super Video CD format. \*\*\* Some MP3, JPEG, DivX or WMA discs may not play due to disc characteristics or recording conditions.

## Speakers: When the Speakers are Yamaha, the Sound is Natural

Yamaha has long been known for its Natural Sound speakers. This is more than a slogan, it's an honest statement of the commitment we put into designing and building our speakers. Natural Sound with stems from our long tradition of producing fine musical instruments. So the experts may measure our speakers in terms of their excellent dynamic range, frequency response, sensitivity and so on, but the true measure of their worth is the clean, natural sound you enjoy each time you listen to them.



## HX Series Home Theatre Reference Speaker Systems

We developed the HX Series as a home theatre reference speaker system worthy of the Yamaha name. With a Waveguide horn for superior spatial expression, light and stiff white spruce diaphragms (WSD), 3-way mitered cabinets and more, these are the ultimate choice for top quality home theatre enjoyment.



**NS-8HX**  
3-Way Dual Woofer Bass-  
Reflex Speaker System



**NS-6HX**  
3-Way Bass-Reflex  
Speaker System



**NS-4HX**  
2-Way Dual Woofer Bass-  
Reflex Speaker System



**NS-2HX**  
2-Way Bass-Reflex  
Speaker System



**NS-C7HX**  
2-Way Dual Woofer  
Acoustic Suspension  
Centre Speaker System



**NS-C5HX**  
2-Way Dual Woofer  
Acoustic Suspension  
Centre Speaker System



## 525 A-PMD Series Home Theatre Speaker Systems

Designed for Natural Sound reproduction in the tradition of fine-quality Yamaha speakers. Featuring Advanced PMD cones with aluminium diecast baskets, DC Diaphragm™ tweeters and innovative cabinet technology.



**NS-525F**  
3-Way Bass-Reflex Tower  
Speaker System



**NS-M525**  
2-Way Bass-Reflex  
Speaker System



**NS-C525**  
2-Way Acoustic Suspension  
Centre Speaker System



The YST-SW515 is designed to acoustically match the speakers in the 525 A-PMD Series (Specifications are on p.29).

**YST-SW515**  
Advanced YST II and  
QD-Bass Subwoofer



HX Series	NS-8HX	NS-6HX	NS-4HX	NS-2HX	NS-C7HX	NS-C5HX
Woofers	Dual 20cm WSD cone	20cm WSD cone	Dual 13cm WSD cone	13cm WSD cone	Dual 13cm WSD cone	Dual 13cm WSD cone
Midrange Driver	13cm WSD cone with Waveguide horn	13cm WSD cone with Waveguide horn				
Tweeter	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn
Magnetic Shielding	Yes	Yes	Yes	Yes	Yes	Yes
Input Power (Max/Nominal)	400 W/140 W	300 W/100 W	300 W/100 W	200 W/60 W	300 W/100 W	300 W/100 W
Sensitivity	92 dB/2.83 V/1 m	91 dB/2.83 V/1 m	91 dB/2.83 V/1 m	90 dB/2.83 V/1 m	91 dB/2.83 V/1 m	91 dB/2.83 V/1 m
Frequency Response	35 Hz-50 kHz	45 Hz-50 kHz	55 Hz-50 kHz	60 Hz-50 kHz	45 Hz-50 kHz	55 Hz-50 kHz
Impedance	6 ohms	6 ohms	6 ohms	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	364 x 1,102 x 397 mm	364 x 1,062 x 397 mm	186 x 500 x 257 mm	186 x 318 x 189 mm	549 x 217 x 318 mm	500 x 186 x 257 mm
Weight	32.5 kg/unit	30.5 kg/unit	11.5 kg/unit	6 kg/unit	15 kg	11.5 kg

525 A-PMD Series	NS-525F	NS-M525	NS-C525
Woofers	16cm Advanced PMD cone	13cm Advanced PMD cone	13cm Advanced PMD cone
Midrange Driver	16cm Advanced PMD cone		
Tweeter	3cm Aluminium dome	3cm Aluminium dome	3cm Aluminium dome
Magnetic Shielding	Yes	Yes	Yes
Gold-Plated Speaker Terminals	Yes	Yes	Yes
Bi-Wiring Connection Capability	Yes		Yes
Input Power (Max/Nominal)	200 W/45 W	120 W/30 W	200 W/45 W
Sensitivity	89 dB/2.83 V/1 m	89 dB/2.83 V/1 m	89 dB/2.83 V/1 m
Frequency Response	35 Hz-50 kHz	60 Hz-50 kHz	57 Hz-50 kHz
Impedance	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	200 x 1,000 x 360 mm	176 x 323 x 193 mm	500 x 170 x 227 mm
Weight	23 kg/unit	4.5 kg/unit	7.4 kg



**EF Series** Home Theatre Speaker Systems

High performance speakers designed for home theatre systems. The EF (Elliptical Form) Series feature Waveguide horns, PMD (Polymer-injected Mica Diaphragm) woofers and highest quality internal Monster Cable wiring for total enjoyment of digital movie sound and music sources, plus elegant Yamaha traditional piano finish cabinets.

**NS-777**

3-Way, 4-Speaker Bass-Reflex Speaker System

**NS-555**

3-Way, 4-Speaker Bass-Reflex Speaker System

**NS-333**

2-Way Bass-Reflex Speaker System

**NS-C444**

2-Way Acoustic Suspension Centre Channel Speaker System

**225 PMD Series** Home Theatre Speaker Systems

These slim, high-performance speaker systems are exactly what today's home theatre enthusiasts are looking for. Their luxurious open pore finish is matched by powerful, accurate sound reproduction from PMD cone woofers and aluminium-magnesium dome tweeters with DC-Diaphragm™ (integrated diaphragm and voice coil).

**NS-225F**

2-Way Bass-Reflex Speaker System  
• Birch finish available for YHT-640BH (see p.18)

**NS-M225**

2-Way Acoustic Suspension Speaker System  
• Birch finish available for YHT-640BH (see p.18)

**NS-C225**

2-Way Acoustic Suspension Centre Speaker System  
• Birch finish available for YHT-640BH (see p.18)



The YST-SW225 is designed to acoustically match the speakers in the 225 PMD Series (Specifications are on p.29).

**YST-SW225**

Advanced YST II and QD-Bass Subwoofer  
• Birch finish available for YHT-640BH (see p.18)



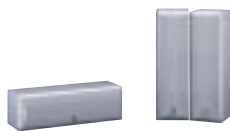
EF Series	NS-777	NS-555	NS-333	NS-C444
Woofers	Dual 20cm PMD cone	Dual 16cm PMD cone	13cm PMD cone	Dual 13cm PMD cone
Midrange Driver	13cm cone with Waveguide horn	13cm cone with Waveguide horn		
Tweeter	2.5cm aluminium dome with Waveguide horn	2.5cm aluminium dome with Waveguide horn	2.5cm aluminium dome with Waveguide horn	2.5cm aluminium dome with Waveguide horn
Magnetic Shielding	Yes	Yes	Yes	Yes
Bi-Wiring Connectivity	Yes	Yes		
Input Power (Max/Nominal)	250 W/100 W	250 W/100 W	150 W/60 W	250 W/100 W
Frequency Response	30 Hz-35 kHz	35 Hz-35 kHz	60 Hz-35 kHz	55 Hz-35 kHz
Sensitivity	89 dB/2.83 V/1 m	88 dB/2.83 V/1 m	87 dB/2.83 V/1 m	89 dB/2.83 V/1 m
Impedance	6 ohms	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	276 x 1,100 x 390 mm	222 x 980 x 345 mm	200 x 320 x 213 mm	514 x 190 x 213 mm
Weight	24.4 kg/unit	20 kg/unit	5.5 kg/unit	7.3 kg
225 PMD Series	NS-225F	NS-M225	NS-C225	
Woofers	Dual 8cm PMD cone	Dual 8cm PMD cone	Quad 6.5cm PMD cone	
Tweeter	3cm aluminium-magnesium dome	3cm aluminium-magnesium dome	3cm aluminium-magnesium dome	
Magnetic Shielding	Yes	Yes	Yes	
Twin Bass Reflex Ports	Yes			
Round-Shaped Bass Anchor	Yes			
Luxurious Real Wood, Open Pore Finish	Yes	Yes	Yes	
Input Power (Max/Nominal)	120 W/40 W	120 W/40 W	120 W/40 W	
Frequency Response	60 Hz-50 kHz	65 Hz-50 kHz	65 Hz-50 kHz	
Sensitivity	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m	
Impedance	6 ohms	6 ohms	6 ohms	
Dimensions (W x H x D)	230 x 1,050 x 236 mm	107 x 360 x 134 mm	440 x 94 x 133 mm	
Weight	7.7 kg/unit	2.4 kg/unit	2.8 kg	

## 125 Series Home Theatre Speaker Systems

Consisting of two front tower speakers, two surround speakers and a centre speaker, the 125 Series sports thin styling to match flat TVs and plasma displays. Excellent sound quality is assured through the use of dual 8cm white cone woofers and a 2.2cm balanced dome tweeter, along with twin bass reflex ports in the tower speakers.



**NS-125F**  
2-Way Bass-Reflex Tower Speaker System  
• Black finish available



**NS-P125**  
Centre and Surround Speaker System  
• Black finish available

## Speaker Stands

### SPS-80

Optional Speaker Stands  
for YHT-230S / YHT-165  
• 300 mmφ (base), 650-900 mm (height)  
• 1.9 kg



### SPS-10MMS (Silver)

Optional Speaker Stands  
for NS-P436 / YHT-340  
• 300 x 300 mm (base), 618 – 868 mm (height)  
• Cherry finish available



## HT Series Home Theatre Speaker Systems

To meet varied system requirements, Yamaha has developed a variety of speakers. Your Yamaha dealer can recommend the ideal speakers to bring out the full potential of your home theatre system and stereo system. And if you already have front speakers and a subwoofer, the NS-P70 is a handy choice.



**NS-50F**  
2-Way, 3-Speaker Bass-Reflex Tower Speaker System  
• Cherry finish available for YHT-540C only (See. p.19)



**NS-P436**  
Digital Home Theatre  
6.1-Channel Speaker Package  
(High Gloss Piano Finish)  
• Cherry finish available for YHT-340C (see p.19)



**NS-P70**  
Centre, Surround and Surround Back Speaker Package  
for 6.1-Channel System  
• Cherry finish available for YHT-540C (see p.19)



125 series	NS-125F	NS-M125	NS-C125 (Centre)
Woofers	Dual 8cm white cone	Dual 8cm white cone	Dual 8cm white cone
Tweeter	2.2cm balanced-dome	2.2cm balanced-dome	2.2cm balanced-dome
Magnetic Shielding	Yes	Yes	Yes
Frequency Response	60 Hz-35 kHz	70 Hz-35 kHz	70 Hz-35 kHz
Sensitivity	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m
Input Power (Max/Nom)	120 W/40 W	120 W/40 W	120 W/40 W
Impedance	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	236 x 1,050 x 236 mm	105 x 340 x 133 mm	340 x 105 x 132 mm
Weight	7.2 kg/unit	2 kg/unit	2 kg

HT series	NS-50E		
Woofers	Dual 16cm cone		
Tweeter	3cm dome		
Magnetic Shielding	Yes		
Input Power (Max/Nom)	240 W/80 W		
Frequency Response	35 Hz-35 kHz		
Sensitivity	90 dB/2.83 V/1 m		
Dimensions (W x H x D)	233 x 880 x 271 mm		
Weight	12.5 kg/unit		

Speaker Packages	NS-P436	NS-P70
<b>System</b>		
Frequency Response	30 Hz-60 kHz	70 Hz-30 kHz
Magnetic Shielding	All speakers*	
	5 satellites	2 satellites
<b>Centre Speaker</b>	2-way acoustic suspension	2-way acoustic suspension
Input Power (Max/Nominal)	100 W/30 W	180 W/60 W
Dimensions (W x H x D)	273 x 81 x 147 mm	465 x 135 x 174 mm
Weight	1.7 kg	3.5 kg
<b>Satellite Speakers</b>	2-way acoustic suspension	2-way acoustic suspension
Input Power (Max/Nominal)	100 W/30 W	150 W/50 W
Dimensions (W x H x D)	87 x 184 x 147 mm	150 x 265 x 156 mm
Weight	1.2 kg/unit	2.3 kg/unit
<b>Subwoofer</b>	Advanced YST and QD-Bass subwoofer	
Output Power	120 W	
Dimensions (W x H x D)	280 x 325 x 320 mm	
Weight	9.2 kg	

\*Except subwoofer

## Subwoofers A Must for Home Theatre

Yamaha subwoofers use sophisticated technologies such as QD-Bass (Quatre Dispersion Bass, down-firing drivers that radiate the sound in four directions) and Advanced YST (Yamaha Active Servo Technology) to ensure the highest levels of sound pressure and overall performance.

The YST-SW515 and YST-SW225 are designed to acoustically match the speakers in the 525 A-PMD Series (see p.26) and 225 PMD Series (see p.27).



### YST-SW1500

Advanced YST and QD-Bass Subwoofer

- Cherry finish available



### YST-SW515

Advanced YST II and QD-Bass Subwoofer



### YST-SW225

Advanced YST II and QD-Bass Subwoofer



### YST-FSW100

Advanced YST II and FD-Bass Flat-Type Subwoofer  
The YST-FSW100 is only for YSP-800 Package (See p.5).



Subwoofers	YST-SW1500	YST-SW515	YST-SW225	YST-FSW100
Advanced YST	Yes	Advanced YST II	Advanced YST II	Advanced YST II
QD-Bass Technology	Yes	Yes	Yes	FD-Bass Technology
High-Efficiency Power Amplifier	Yes	Yes		
Drivers	30cm extra-long stroke driver with dual bias system	25cm cone	20cm cone	16cm cone
Magnetic Shielding	Yes	Yes	Yes	Yes
Linear Port		Yes	Yes	
Half Pipe Port				Yes
High Cut Filter (Continuously Variable)	40–140 Hz	40–140 Hz	40–140 Hz	
Phase Control (Normal or Reverse)	Yes	Yes	Yes	Yes
Auto Standby	Yes	Yes	Yes	Yes
BASS (Bass Action Selector System)	Yes	Yes	Yes	Yes
Low Frequency Effect Input Terminal	Yes			
High Pass Filter Output Terminal	Yes			
Remote Control with 3 Memory Presets	Yes			
Output Power	1,000 W	250 W	120 W	130 W
Frequency Response (–10 dB)	16–160 Hz	20–160 Hz	28–200 Hz	30–200 Hz
Dimensions (W x H x D)	420 x 511 x 448 mm	350 x 430 x 382 mm	290 x 350 x 349 mm	400 x 375 x 157 mm
Weight	29 kg	19 kg	11.5 kg	9 kg

### QD-Bass Technology

QD-Bass (Quatre Dispersion Bass) technology uses down-firing drivers with square, pyramid-shaped reflective plates to radiate the sound efficiently in four horizontal directions. The reflective plates negate any effects caused by the floor surface and reduce resonance between sound waves reflected from the floor and the unit.



**QD-Bass**  
TECHNOLOGY

### Advanced YST

Advanced Yamaha Active Servo Technology (Advanced YST) is a unique system in which the speaker and amplifier work together to cancel out impedance so the speaker unit has a perfectly linear motion. Advanced YST helps to ensure the

highest levels of sound pressure and overall performance.



### Advanced YST II (YST-SW515, YST-SW225 and YST-FSW100)

In Advanced YST II, an Advanced Negative Impedance Converter enables the speaker cone to be driven with even tighter control. The result is more stable and accurate low range response, as well as higher sound pressure levels, for more natural and energetic bass reproduction.

### BASS

The BASS (Bass Action Selector System) function lets you switch between Movie and Music modes, providing the optimum frequency response in each case.

### Linear Port (YST-SW515 and YST-SW225)

The Linear Port provides smooth bass response during playback and minimizing extraneous noise.

### Effect of Linear Port and Half Pipe Port

Advanced YST produces rich bass sound, and the addition of a Linear Port reduces extraneous noise for even higher quality.



A semicircular Half Pipe Port provides the benefits of full 180° dispersion when placed against a wall, compact design and minimal extraneous noise for high sound quality.



### Half Pipe Port (YST-FSW100)

The subwoofer also employs a new design feature called the Half Pipe Port, which further smoothes bass response and minimizes extraneous noise.



# MusicCAST

Interactive Home Music Network System

Give everyone in the family instant access to their favourite music in their own room – or anywhere else in the house!

A multi-room home entertainment system that you can easily set up yourself. MusicCAST will store your entire family's favourite music on a high-capacity hard disk and let each person select and listen to their own music in any of 16 different locations. In addition to the normal portable Clients, MusicCAST is now also available with In-Wall Clients for custom installation. With outstanding convenience and extensive capabilities, this system takes family music enjoyment to a whole new level.



THE IN-WALL CLIENT  
MCX-C15  
MCX-CA15



THE SERVER  
MCX-2000



THE CLIENT  
MCX-A10



THE SERVER

The MusicCAST server stores and broadcasts music content wirelessly to any location within your home.



**MCX-2000** Digital Audio Server

- Dimensions (W x H x D): 435 x 95 x 409 mm
- Weight: 6.6 kg



THE CLIENT



**MCX-A10** Digital Audio Terminal

- Dimensions (W x H x D): 210 x 245 x 79 mm
- Weight: 2 kg



Clients are used to retrieve music content stored on the MusicCAST server, for instant access to music in any location within your home.

High sound quality exclusive MusicCAST speaker system.



**MCX-SP10** Optional Speaker System

- Dimensions (W x H x D): 210 x 210 x 79 mm
- Weight: 1.2 kg/unit



## THE SERVER

MCX-2000



## THE CLIENT

MCX-A10 / MCX-SP10

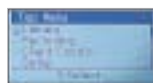
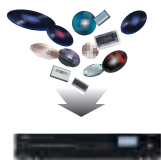
### Wireless, multi-room, multi-selectable music library.

■ **PC content playback:** The MCX-2000 broadens music enjoyment throughout your home with the ability to play back music files from a PC. Edit library items using the PC web browser. Also, there are tentative plans to offer Digital Living Network Alliance (DLNA) compatibility.

\* Requires Windows® PC running Windows XP®.

■ **Simply wireless:** You can enjoy and control music in as many as 16 locations: one Server and 15 Clients (5 wireless plus 10 wired).

■ **Store 3000 CDs of music:** A huge amount of music is at your fingertips. The hard disk stores up to 3,000 CDs of music in MP3 format.



Large LCD front panel display

■ **User friendly:** The Server has a GUI with on-screen menus and the Clients have large panel displays.

■ **Radio choices:** FM tuner and Internet Radio compatibility.

■ **Create your own CDs:** You can even make your own CDs from playlists of songs you have selected.

■ **Automatic retrieval of music information:** Various information about songs, such as artist name, album name, song list and music genre can be retrieved automatically from the Internet (Gracenote® Music Recognition Service) or, if not connected to the Internet, from an internal database.

Music recognition technology and related data are provided by Gracenote®.



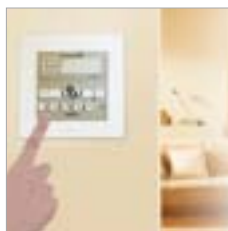
## THE IN-WALL CLIENT

MCX-C15 / MCX-CA15

### The MusicCAST client system, MCX-C15 and MCX-CA15, offers extensive features and flexibility.

■ **In-wall installation:** Great control within reach, yet out of the way...bring home the convenience of this intelligently integrated in-wall mountable MusicCAST Client into your living environment. With variety of installation configuration available, now every room is fully customizable to enjoy the benefits the MusicCAST music distribution system can provide.

■ **Favourites selection:** The four Favourites buttons allow direct playback of various sources. Each can be assigned the following functions: playlist, analogue or digital inputs from Server, tuner presets, local Aux input from MCX-CA15. Favourite selections can be made even when the MCX-C15 is in sleep mode.



■ **IR flasher support:** The MCX-C15 supports limited IR transmission functions for custom installation. IR signals from the MCX-C15 can be transmitted to the MCX-CA15 or the I/O Box, and can drive an IR flasher for remote control of other components. The function works on only 38kHz modulation frequency.

\* IR flasher units are not available from Yamaha.

■ **Yamaha AV link:** The MCX-C15 can generate extended IR commands to control a Yamaha AV receiver, if more power than the MCX-CA15 is desired. The following functions can be controlled via the MCX-C15 remote control: volume, input selection, tuner preset selection, sleep and standby modes.



RX-V2600



## THE IN-WALL CLIENT



In-wall mountable, network ready Clients add versatility to the MusicCAST system with great new features such as Favourite Function buttons, IR Flasher Support and Yamaha AV Link.

### MCX-C15 Distributed Audio Controller

■ Dimensions (W x H x D): 120 x 120 x 106 mm



### MCX-C15 Family



In/Out Box

Remote Control Unit



This multipurpose in-wall amplifier is perfectly matched to the MCX-C15 Client. It provides high quality power to speakers, as well as subwoofer and video OSD outputs.

### MCX-CA15 Distributed Audio Amplifier

■ Dimensions (W x H x D): 120 x 120 x 106 mm



## PianoCraft:

Natural Sound Enjoyment from a High Performance, Elegant System.

A lot of fine craftsmanship goes into Yamaha's world-renowned pianos, and that same dedication to sound and design excellence is behind the creation of the award-winning PianoCraft series. You have a choice of compact, high quality systems, each of which includes two speakers and the capability of adding a subwoofer.



The PianoCraft E100 System won the EISA award for Best Compact System 2000-2001. The prestigious EISA awards are chosen by media representatives from 19 European countries.



**MCR-E700** Micro Component System



[RDX-E700 CD/DVD Receiver] • CD/DVD receiver in slim one body • DivX, WMA, MP3 and JPEG multisession compatibility • Progressive Scan CD/DVD Playback (PAL/NTSC) • Convenient multi-jog dial • Slim loading tray • 30W x 2 high power • 30 FM/20 AM-station tuning • Subwoofer out • Bass and treble tone controls • Timer playback [NX-E700 Speaker System] • 2-way bass-reflex speaker system • 11cm woofer and 2.5cm dome tweeter • 110W high power input capability



**MCR-E600** Micro Component System with CD/DVD Player



[Receiver RX-E600] • 40 W x 2 high power • Linear Damping • High Dynamic Power and Low-Impedance Drive Capability • Subwoofer out • Discrete amplification • 40-station preset tuning [CD/DVD Player DVD-E600] • Progressive Scan CD/DVD Playback (PAL/NTSC) • 54MHz/12-bit video DAC • Picture CD playback • MP3 and JPEG (multisession) playback • 2-way bass-reflex speaker system [NX-E400 Speaker System] • 2-way bass-reflex speaker system • 13cm woofer and 2.5cm dome tweeter • 110W high power input capability

PianoCraft	MCR-E700	MCR-E600
Receiver	RDX-E700 CD/DVD Receiver	RX-E600 Receiver
Output Power	30 W/Ch	60 W/Ch
Linear Damping [Damping Factor]	(6 ohms, 20 Hz-20 kHz)	Yes (60)
Dynamic Power/Channel	(6/4/2 ohms)	60 W/75 W/100 W
Dimensions (W x H x D); Weight	215 x 113 x 270 mm; 2.65 kg	217 x 108 x 372 mm; 5.4 kg
CD / DVD Player		DVD-E600 CD/DVD Player
Harmonic Distortion + Noise	0.007%	0.003%
Signal-to-Noise Ratio	95 dB	105 dB
Dynamic Range		100 dB
Dimensions (W x H x D); Weight		217 x 108 x 346 mm; 2.5 kg
Speaker System	NX-E700	NX-E400 Speaker System
Drivers	11cm cone woofer and 2.5cm dome tweeter	13 cm cone woofer and 2.5 cm dome tweeter
Input Power (Max/Nominal)	110 W/60 W	110 W/60 W
Frequency Response	60 Hz-28 kHz	55 Hz-28 kHz
Dimensions (W x H x D); Weight/unit	165 x 255 x 183 mm; 3.4 kg	186 x 300 x 223 mm; 4.3 kg



### ToP-ART

When processing and transmission of the audio signal is simple and direct there is less chance of it being affected by noise and distortion. Yamaha's amplifier design technology called ToP-ART features I/O (input to output) Direct Symmetrical Design, with left and right channels organized in a straight, symmetrical layout for highest signal purity.

**ToP-ART™**  
Total Purity Audio Reproduction Technology

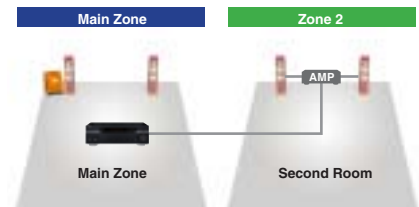
### CD Direct Amplification

Engaged by a front panel switch, it matches CD signal levels so each stage produces less noise, resulting in improved S/N ratio and maintenance of the amp's total gain balance.

**CD Direct  
Amplification**

### Custom Installation Compatibility

As befits a high performance receiver, the RX-797 and RX-497 are designed to be suitable for use in custom installations. It has a Zone 2 out so the audio/video signal can be output in a second room (RX-497: audio only). In addition, You can enjoy audio in 3 different zones in your home by using main zone speaker output, Speaker B output, and zone 2 audio/video output. The RX-797 also a Main/Zone 2 power switch and 2-in/1-out remote terminals (RX-497: 1-in/1-out).



## Natural Sound Audio Components: Putting You in the Same Room as the Musicians.

Well, not actually. But if you close your eyes, you might well imagine that they are right there with you. Assemble a system from the components on the next page, according to your listening preferences. Then let the pure, natural sound of Yamaha audio components bring your music to life as you have never heard it before in your own home.

### DVD-Audio/Super Audio CD Ready

Rather than the usual 20Hz–20kHz frequency response, Yamaha has given RX-797, RX-497, RX-397, AX-497 and AX-397 the ability to handle frequencies to 100kHz. Super Audio CD and other new formats will be able to output sound over this range, so these models are fully compatible with products using these formats.



### High Dynamic Power, Low-Impedance Drive Capability

Yamaha stereo receivers and amplifiers are capable of delivering large amounts of reserve power for accurate reproduction of high energy peaks. This emphasizes the music's dynamic qualities and provides a sharper sound image.

### Linear Damping

Level variations due to high amp impedance tend to reduce an amplifier's damping factor, and frequency variations cause it to fluctuate. This circuit cancels the effect of these variations, maintaining a high, stable damping factor, for superior articulation of all sounds and better frequency response.

### Enjoy Uninterrupted Music

The CDC-685 and CDC-585 give you the benefits of extended playing time and direct selection from all discs. And with PlayXchange, you can change discs while the current one continues to play. You don't have to interrupt the music to change a disc and you're not limited to changing only one disc at a time.





## CDR-HD1500

HDD + CD-R/RW Digital Audio Recorder

The previous CDR-HD1300E has been honoured with an EISA Award for Best Audio Recorder 2002-2003. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

**Versatile, High Capacity Digital Recording. Ideal for a Variety of Uses Including as a High Quality Jukebox.**

- Linear PCM 16-bit/44kHz recording (no compression) • 24-bit DAC/ADC • Audio Master Quality Recording mode (CD-R only) • CD-HDD-CD recording maintains full digital quality • Easy, extensive editing possible before recording CDs • 100 hours continuous external source recording • High-speed ripping and High-speed rec • Jog dial for fast track access • On-screen display • Synchronized rec mode • Timer rec • Title input via RS-232C interface • Time search • Copyright protection



**Hard disk holds 300 hours of music**

Rip 300 hours of music onto the hard disk at 10x normal speed. Highest digital quality because signal is not compressed.

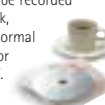


**Record other sources, too**  
Record LPs, tapes, radio and other sources – then burn them onto CD-Rs for long-term storage.



**Making your own CDs is easy and fast**

When your perfectly edited music is ready to be recorded from the hard disk, transfer it at 8x normal speed to a CD-R or at 4x to a CD-RW.



**Instant access to your music**  
Create up to 999 "Albums," each with as many as 99 songs, on the HD. The Jog dial makes accessing tracks ultra-fast and easy.



## RX-797

ToP-ART CD Direct Amplification

AM/FM Stereo Receiver

- ToP-ART • CD Direct Amplification • Multi-zone control capability with dedicated Zone 2 remote unit
- Preset remote unit for Main Zone • Gold-plated input terminals • Rec Out/Zone 2 selector • Subwoofer out



## RX-497

AM/FM Stereo Receiver

- Multi-zone control capability with Zone 2 out
- Preset remote unit • Linear Damping • High dynamic power, low-impedance drive capability • Continuously variable loudness control • Subwoofer out



## RX-397

AM/FM Stereo Receiver

- Pure Direct • Super Audio CD and DVD-Audio ready
- Linear Damping • High dynamic power
- Continuously variable loudness control • Speaker A, B or A+B Selection • Tape monitor switch



## TX-497

AM/FM Stereo Tuner

- 40-station random access preset tuning
- Auto preset tuning
- Absolute Linear Phase IF Amplifier circuitry



## AX-497

ToP-ART CD/DVD Direct Amplification

Stereo Integrated Amplifier

- ToP-ART • CD/DVD Direct Amplification (discrete configuration) • Pure Direct • DVD-Audio/Super Audio CD ready • Rec out selector • High dynamic Power and Linear Damping • Tape monitor switch



## AX-397

CD/DVD Direct Amplification

Stereo Integrated Amplifier

- CD/DVD Direct Amplification • Pure Direct • DVD-Audio/Super Audio CD ready • High dynamic Power and Linear Damping • Continuously variable loudness control • Tape monitor switch



## CDC-685

PLAYXCHANGE DISC

CD Changer

- Yamaha patented PlayXchange
- CD-R/CD-RW playback compatibility
- CD Text display
- I/O port for custom installation



## CDC-585

PLAYXCHANGE DISC

CD Changer

- Yamaha patented PlayXchange
- CD-R/CD-RW playback compatibility
- CD Text display
- Peak search and tape edit



## KX-W421

Auto-Reverse Double Cassette Deck

- Play Trim control (both decks) and high-speed Play Trim control • Dolby HX Pro Dynamic Bias Servo • 4-digit tape counters (both decks) • Two speed dubbing



## CDX-596

PRO-BIT

CD Player

- CD-R/CD-RW playback compatibility • 3-mode CD Text display • PRO-Bit technology • Fine Sound Tuning
- Digital (optical/coaxial) out



## CDX-396

CD Player

- CD-R/CD-RW playback compatibility • Intelligent Digital Servo • Optical digital output • Peak search
- 3-mode tape edit • 40-track programme play



## KX-393

Stereo Cassette Deck with Play Trim

- Auto tape tuning • Play Trim control • Dolby HX Pro Dynamic Bias Servo • MPX filter switch • Bi-directional intro scan • Memory stop

Receivers	RX-797	RX-497	RX-397	
ToP-ART	Yes			
CD Direct Amplification with Switch	Discrete configuration			
Custom Installation Capability	Yes (audio / video)	Yes (audio only)		
Dedicated Zone Remote Unit	Yes			
Subwoofer output	Yes	Yes		
Video Switching	Yes	Yes		
Min. RMS Output Power/Channel (8 ohms, 20 Hz-20 kHz) [THD]	100 W [0.019%]	75 W [0.04%]	50 W [0.04%]	
High Dynamic Power, Low Impedance Drive Capability	Yes	Yes	Yes	
Dynamic Power/Ch (8/6/4/2 ohms)	140/170/220/290 W	105/125/150/178 W	70/77/89/100 W	
Linear Damping [Damping Factor (8 ohms, 20 Hz-20 kHz)]	Yes [240 (speaker A)]	Yes [150 (speaker A)]	Yes [150 (speaker A)]	
Total Harmonic Distortion (CD, 20 Hz-20 kHz)	0.012% (50 W/8 ohms)	0.02% (35 W/8 ohms)	0.02% (35 W/8 ohms)	
Frequency Response	10 Hz-100 kHz $\pm 1$ dB	10 Hz-100 kHz $\pm 1$ dB	10 Hz-100 kHz $\pm 1$ dB	
Signal-to-Noise Ratio (CD)	110 dB (CD direct)	108 dB	108 dB	
Dimensions (W x H x D)	435 x 151 x 389 mm	435 x 151 x 308 mm	435 x 151 x 308 mm	
Weight	10.9 kg	7.5 kg.	7.4 kg	

Integrated Amplifiers	AX-497	AX-397		
ToP-ART	Yes			
CD/DVD Direct Amplification with Switch	Discrete configuration	Yes		
Min. RMS Output Power/Channel (8 ohms, 20 Hz-20 kHz) [THD]	85 W [0.019%]	60 W [0.019%]		
High Dynamic Power, Low-Impedance Drive Capability	Yes	Yes		
Dynamic Power/Ch (8/4/2 Ohms)	130/185/220 W	100/140/150 W		
Linear Damping [Damping Factor (8 Ohms, 20 Hz-20 kHz)]	Yes [240 (speaker A)]	Yes [240 (speaker A)]		
Signal-to-Noise Ratio (CD/DVD Direct On)	110 dB	110 dB		
Frequency Response (CD/DVD Direct On)	10 Hz-100 kHz $\pm 1$ dB	10 Hz-100 kHz $\pm 1$ dB		
Dimensions (W x H x D)	435 x 151 x 390 mm	435 x 151 x 390 mm		
Weight	9.1 kg	8.3 kg		

CD Players	CDX-596	CDX-396	CDC-685	CDC-585
Harmonic Distortion + Noise	0.003%	0.003%	0.003%	0.003%
Frequency Response	2 Hz-20 kHz $\pm 0.5$ dB	2 Hz-20 kHz $\pm 0.5$ dB	2 Hz-20 kHz $\pm 0.5$ dB	2 Hz-20 kHz $\pm 0.5$ dB
Signal-to-Noise Ratio	115 dB	105 dB	106 dB	106 dB
Dynamic Range	96 dB	100 dB	95 dB	95 dB
Dimensions (W x H x D)	435 x 96 x 277 mm	435 x 96 x 277 mm	435 x 116 x 404 mm	435 x 116 x 404 mm
Weight	3.7 kg	3.7 kg	5.9 kg	5.9 kg

Cassette Decks	KX-393		KX-W421	
Wow & Flutter (W RMS)	0.07%		0.08%	
Signal-to-Noise Ratio (NR Off/Dolby B/C)	58/66/74 dB		58/66/74 dB	
Frequency Response (Metal)	20 Hz-19 kHz $\pm 3$ dB		20 Hz-20 kHz $\pm 3$ dB	
Dimensions (W x H x D)	435 x 126 x 283 mm		435 x 146 x 279 mm	
Weight	4.4 kg		5 kg	

HDD + CD-RW Digital Audio Recorders	CDR-HD1500
Frequency Response	5 Hz-20 kHz $\pm 0.5$ dB
Playback S/N Ratio	105 dB
Playback Dynamic Range	99 dB
Playback THD + Noise	0.004%
Recording S/N Ratio	92 dB
Recording Dynamic Range	92 dB
Recording THD + Noise	0.006%
Dimensions (W x H x D)	435 x 116 x 415 mm
Weight	8.2 kg (except HDD)

Tuner	TX-497
FM 50dB Quieting Sensitivity	Mono 1.55 $\mu$ V (15.1 dBf) Stereo 21 $\mu$ V (37.7 dBf)
FM Alternate Channel Selectivity	85 dB
FM Frequency Response	30 Hz-13 kHz $\pm 0.5$ dB
FM Signal-to-Noise Ratio	Mono / Stereo 82 dB / 76 dB
FM harmonic Distortion	Mono/Stereo 0.1%/0.2%
Dimensions	(W x H x D) 435 x 86 x 278 mm
Weight	3.2 kg



"d-cinema" is the slogan of Yamaha A/V products and technology, reflecting our focus on digital technology and our leadership in creating and refining digital home theatre.



Yamaha's unique technology for the creation of sound fields is capable of powerfully reproducing the three-dimensional environment that movie sound engineers aim to convey, in any audio format from monaural to the latest 6.1-channel digital surround. It is compatible with DVD and all other A/V sources. Yamaha CINEMA DSP technology has received a patent in the U.S. (Patent No. 5,261,005).

SILENT™  
CINEMA

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PlayXchange is a registered trademark in the U.S. Yamaha has received a patent for PlayXchange technology in the U.S. (Patent No. 5,115,419).

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# The Technologies Behind the World's Finest Home Theatre Systems

Yamaha was one of the first to make home theatre a reality, with our CINEMA DSP surround sound technology, and we're continuing to forge ahead with exciting new developments like our Digital Sound Projector. The next few pages give you an overview of the main technologies that make our audio and video components leaders in terms of both quality and functional versatility.

37 Digital Sound Projector™ Technology

38 Cinema Projector Technology

39 High Sound Quality Technology

40 High Picture Quality Technology

41 Surround Realism

42 Advanced Facilities

43 Natural Sound Speaker Technology

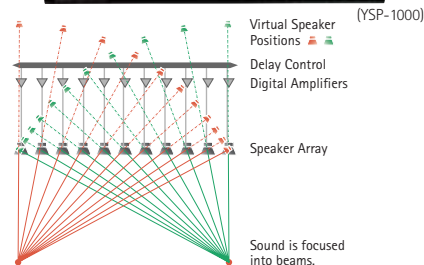




# Digital Sound Projector™ Technology

## Digital Sound Projector™ Technology

The YSP components apply sophisticated Digital Sound Projector™ Technology to precisely control the orientation of the sound by focusing it into beams. The center channel sound is heard directly, while sounds from other channels are heard after reflecting off walls. The result is true multi-channel surround sound that sounds just like a multi-speaker system – but without the need for extra speakers!



Multiple channels (two channels in the figure) are superimposed to create the sound. In a 5.1-channel configuration, the beam speakers together create the sound of 5.1 superimposed channels.

## IntelliBeam Automated System Calibration (YSP-1000 and YSP-800)

This Yamaha exclusive feature ensures optimum multi-channel sound reproduction with accurate image location. By monitoring and analyzing the sound with the microphone included with the YSP-1000 and YSP-800, IntelliBeam automatically sets the best beam angles and modes, while optimizing the level and frequency response of each beam. This makes initial setup both extremely simple while acoustically perfect. Manual setup is also possible.

IntelliBeam



Sound is projected at the listener from five directions: straight ahead, reflected off one wall, and reflected off two walls (so it is heard from the rear).

## Best Sound in Every Situation with Multiple Beam Modes (YSP-1000 and YSP-800)

Five different beam modes can be selected via the remote control. Five Beam mode provides true multi-channel surround sound. Stereo mode reproduces the effect of a two-speaker system. Stereo + Three Beam mode and Three Beam mode surround effects are also available, plus a Target mode that focuses the sound in one direction. This could be used, for example, when mother wants to watch TV diagonally from the kitchen..

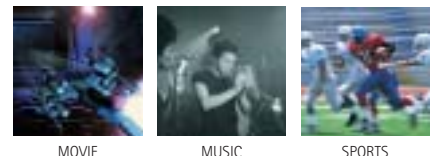
## CINEMA DSP with Dolby Digital and DTS (YSP-1000 and YSP-800)

Yamaha's ultra-sophisticated CINEMA DSP technology creates thrillingly realistic soundscapes in your room. CINEMA DSP programmes (YSP-1000: 7; YSP-800: 3) are available.



The YSP-1000 and YSP-800 are compatible with Dolby Digital, DTS, Dolby Pro Logic II and DTS Neo:6 sound formats.

## CINEMA DSP Programme Buttons



## Two Volume Modes: Night Listening Enhancer and TV Equal Volume (YSP-1000 and YSP-800)

During low-volume listening, such as late at night, dynamic range suffers and you may miss some sounds. The Night Listening Enhancer offers two settings, Cinema and Music, with three-level selectability, which will ensure that you don't miss movie dialogue or quiet passages, or lose overall surround spaciousness. There is also a TV Equal Volume mode to prevent sudden bursts of loud sound such as from commercials.

## Custom Installation Compatibility: Remote In, IR Out and RS-232C Interface (YSP-1000)

The YSP-1000 supports IR signal transmission for the convenient operation of other components. The YSP-1000 can be controlled by an IR signal sent through the remote in terminal. The IR signal received by the Remote Control Sensor on the front panel is directly output through the remote out terminal. It is also provided with an RS-232C interface for a touch-panel controller.

## Video Input Selection (YSP-1000)

Video input can be selected from any of two component inputs to a component output, or from three composite inputs to a composite output.

## IntelliBeam Automated System Calibration



Left: Each sound beam is precisely directed. Center: Total sound beam effect is optimized. Right: Sound is monitored and analyzed, after which frequency response and other parameters are optimized for the room.

## 5 Beam Modes





# Cinema Projector Technology

## DPX-1300: Advanced technologies deliver extraordinary performance.

### "Natural Black" Concept

How a video system reproduces black and all its gradations is what determines contrast, and generally makes the difference between an image that is merely good and one that is sharp and richly detailed at every level of brightness. In quest of superior contrast performance, Yamaha developed the Natural Black concept, whereby various technologies, parts and functions combine to achieve truer, deeper levels of black than those of conventional home cinema projectors.

Black reproduction by DPX-1300 and conventional projectors.



Yamaha Natural Black makes subtle degrees of black in textures, shadows stand out more clearly.

With other projectors, black contrast may be soft and fuzzy rather than sharp and clear.



### Taking Projector Performance to a Higher Level

The DPX-1300 makes use of a wide range of new technologies to deliver extraordinary video performance. Contrast is an incredible 5,000:1, brightness is 800 ANSI lumens, picture sharpness is outstanding and colour reproduction is stunningly natural.

### New 10-Bit Video Signal Processing

Designed for discerning home theatre fans, the DPX-1300 utilizes 10-bit video signal processing from A/D conversion all the way through to DMD™ output. In addition, the newest HQV technology from Silicon Optix Inc. has been adopted to enable programmable per-pixel processing. Plus, at high-definition TV resolution, high-level de-interlacing processing (1080i to 1080p) is performed at the pixel level. Complex cadences are handled with ease, not only with 3:2 pulldown, but also with broadcast film and animation programming, for smooth, stable de-interlacing. Other remarkable technologies include highly detailed scaling processing, jaggy line reduction for HD sources. An exclusive Overshoot Suppressor is more natural outlines in images. To further improve DVD or SD TV picture quality, powerful Digital Video Noise Reduction minimizes mosquito noise and block noise.



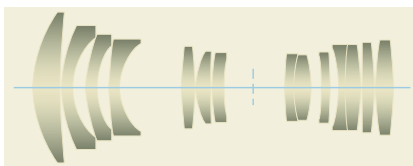
### 720P DarkChip3™ Engine

This DLP chip is Texas Instruments' most advanced Digital Micro Mirror Device. As the name implies, it provides deeper blacks, while improving contrast in dark areas.



### High-Resolution Lens

Yamaha has gone beyond the capabilities of other projectors with the use of a new high-resolution lens that maintains resolution sensitivity to the edge of the lens. Four anomalous-dispersion glass components are used to reduce chromatic aberration by half while maintaining a short focal point and high zoom magnification.



### Seven-Segment Colour Wheel

The DPX-1300 incorporates a seven-segment colour wheel, with an ND filter-equipped green segment, resulting in excellent colour reproduction.



### Natural Colour Adjustment System

The DPX-1300 features a colour balance adjustment menu that enables higher precision adjustment with easier operation, with three colour adjustment modes.

### Convenient Memory Functions

For each set of input terminals, there are a total of six memory positions for storing different combinations of parameter settings, and each can be used for two different input signals, enabling up to 84 different memory setting patterns.

### Mounting Flexibility

Mounting the DPX-1300 is easy and versatile. Lens-to-screen distance can be anywhere from 9 ft. 10 in. to 15 ft. 9 in. (100" screen) thanks to the powerful 1.6x zoom lens. Motorized vertical lens shift is  $\pm 50\%$  of projection height, so the projector can be used at any height between the top and bottom of the screen. Iris, zoom and focus adjustments are also motorized. In addition, vertical and horizontal keystone.

### HDMI and DVI Terminals for Versatile Interfacing

In order to connect the DPX-1300 to any component which outputs a digital video signal, it is equipped with both HDMI and DVI terminals. This also enables it to handle a variety of other data as well, such as component type, aspect ratio and calorimetry, which can be adjusted.

## DPX-530: "Natural Black" and superior features for high contrast, high brightness and magnificent colours.

### 4,000:1 Contrast Ratio

#### (Highest Level in Its Class)

The DPX-530 utilizes DLP™ and other advanced technologies to deliver superior overall projection performance. In addition to having a wide-panel DMD™, with a mirror angle of  $\pm 12^\circ$ , the optical engine features a high-detail all-glass lens. The prism shape and lens arrangement have been precisely designed and a special coating reduces the light reflection that can affect contrast performance. As a result, contrast is an amazing 4,000:1 and small details that would ordinarily be obscured by black areas are visible. In addition, the highest level of brightness in its class (1,500 ANSI lumens) lets you enjoy clear images in ordinary living room lighting.

### Motorised Iris Control for Higher Contrast

The DPX-530 utilises motorised Optical Iris Control. Optimising the shape of the iris contributes to the high contrast performance and helps to increase the depth of field.

### Seven-Segment Colour Wheel

This projector uses an improved colour wheel with seven segments, including a white segment that makes bright scenes extremely vivid.

### Quiet Operation

The DPX-530 runs with the quiet efficiency customers expect from a high quality home cinema projector. It uses effective ducting and minimises cooling fan operation by continually adjusting it according to picture brightness. Viewers can lost themselves in the movie without the annoyance of projector noise.

### Low Light Leakage

The chassis is designed to block light leakage from the front, where stray light is more likely to affect picture quality.



### 4,000-Hour Lamp Life

The lamp has a long service life of approximately 4,000 hours (lamp Cinema mode), thanks to an improved temperature control system.

### DVI-D Terminal and HDMI Compatibility

A DVI-D terminal is provided, so digital signals can be received for maximum picture quality. This terminal can accept copy protection (HDCP) signals. By using a connector conversion cable, HDMI input is possible via the DVI-D terminal.

# High Sound Quality Technology

## DIGITAL ToP·ART

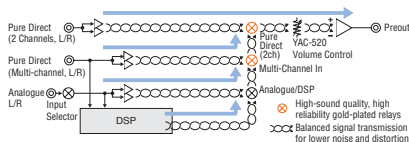
Total Purity  
Audio Reproduction Technology

### Digital ToP-ART and High Current Amplification

The Digital ToP-ART design concept combines the latest and best technologies, parts and circuit designs to maximize sound quality. High Current Amplification uses superior quality components from input to output to achieve high current power with low impedance. Also, Yamaha has completely re-evaluated all parts, choosing only the finest audio-grade parts and devices, such as Burr-Brown 192 kHz/24-bit DACs and re-designed power supply circuits for massive power and superlative sound quality. In addition, the amplifiers are assignable for bi-amp connections.

### Choice of Signal Paths for Optimum Quality

Yamaha receivers give you a choice of specialized signal paths, ensuring that you can obtain the purest signal quality possible. Pure Direct provides the shortest possible signal path for two-channel or multi-channel analogue inputs, with no signal processing and no display. Straight outputs the original analogue or digital signal without any post-processing. i.LINK provides a digital connection for DVD-Audio Linear PCM, Super Audio CD DSD (Direct Stream Digital) and other high quality audio sources. Direct provides a direct connection for analogue stereo/multi-channel input and digital stereo/multi-channel (via i.LINK) input, with a dimmed display.



RX-Z9 Front Channel Signal Flow

### Symmetrical Power Amplifier Circuitry (RX-Z9)

The High Current Amplification uses a symmetrical, full push-pull circuit configuration with a complementary FET input stage. This ensures balanced output with no signal interference and highest slew rate (rate at which signal changes; affects high frequency response). Furthermore, the massive toroidal transformer and large capacity block electrolytic capacitors ensure a consistently stable power supply.

### High Grade Construction with Independent Chambers and Anti-Vibration Design (RX-Z9)

The RX-Z9 uses a heavy-duty, rigid chassis

construction with separate individual chambers for left and right power amplifiers, power supply and control section to prevent any chance of interference. This thick chassis has electromagnetic shielding. The extremely large aluminium-extruded heat sinks have anti-resonance characteristics and ensure effective heat dissipation. Yamaha's ToP-ART base and feet provide stability and further vibration-damping. The other receivers use many of these same design features.

### Dual i.LINK (IEEE1394) Terminals (RX-Z9)

i.LINK provides a digital connection for DVD-Audio Linear PCM, Super Audio CD DSD (Direct Stream Digital) and other high quality audio sources.



### Only the Finest Parts are Used

At this degree of extreme sound quality, each and every part in the receiver makes a difference. Yamaha technicians tested, selected and in many cases custom-designed all parts, and then tested them in groups to ensure that they sounded good together. Particularly noteworthy parts, in addition to the transformer and capacitors, include:

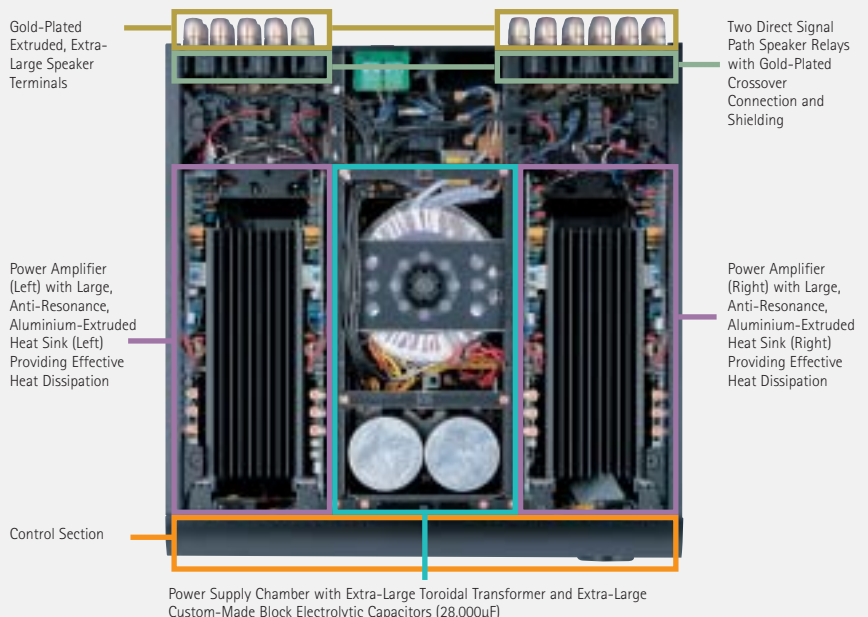
- Extra-large custom-made block electrolytic capacitors
- Extra-large, powerful toroidal transformer
- Schottky Barrier diodes that allow fast switching for high S/N ratio (RX-Z9/RX-V2600)

- Burr-Brown high performance DACs for all channels (RX-Z9/RX-V2600/RX-V1600)
- High performance FE Mica capacitors and Metric Mylar Film capacitors using polypropylene material
- Thick PC board wiring with 0.6mmφ diameter copper jumper cables
- Two direct signal path speaker relays with gold-plated crossover connections and shielding



(1) Extra-Large Toroidal Transformer, (2) Gold-Plated Extruded, Extra-Large Speaker Terminals, (3) Two Direct Signal Path Speaker Relays

### RX-Z9 High Grade Construction with Independent Chambers

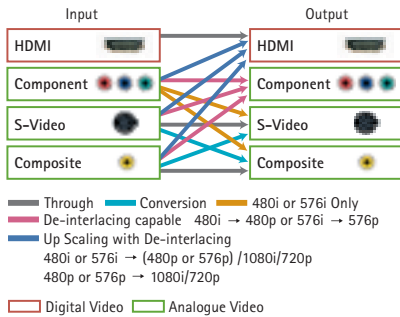




# High Picture Quality Technology

## Full Analog Video Up-Conversion to HDMI with TBC (Time Base Corrector) (RX-V2600/RX-V1600)

Video composite, s-video and component signals are up-converted to HDMI digital output, with a Time Base Corrector (TBC) in the Analog Devices high performance encoder and decoder. If you have an HDMI compatible TV/monitor, you can enjoy high picture quality from analogue video signals (VCR/TV broadcasts). In addition, these receivers use an Oplus™ high-performance de-interlacer for the best quality progressive video images (480i/576i to 480p/576p). The RX-V2600 also upscales 480i/576i signals to 1080i/720p high definition resolution.



## HDMI Interface (RX-V2600/RX-V1600)

These receivers offer 2 in / 1 out HDMI switching, providing the most advanced method of delivering high quality video signals to a home theatre system to enable the reproduction of DVD and satellite TV sources with HD quality. Compatible with the HDMI Ver. 1.1 format, it can also decode digital audio signals from sources such as DVD-Audio, CD, Dolby Digital and DTS.



## DCDi Processing (RX-Z9)

The RX-Z9 is the first receiver to offer Faroudja's DCDi Processing, which is selectable and ensures that images are smooth and natural, without staircasing or jaggies.



## Noise Shaped Video™ (RX-Z9)

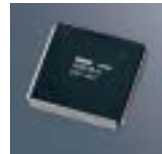
This technology, from Analog Devices, uses oversampling and advanced techniques such as multi-bit sigma-delta processing and bit-shuffling to improve converter performance by moving converter noise to an area of the

spectrum where it can be removed by an analog filter. This improves the accuracy of signal representation, allowing images to be displayed at much higher resolutions.



## Progressive Scan Video Output and Other Video Technologies (RX-Z9)

The RX-Z9 is the first receiver to provide Progressive Scan Video Output, for use with high definition monitors. With almost twice as much video data, it provides a sharper, noise-free picture with clearer details. The progressive circuit is an 3:2 Pull-Down Detection type, and gives you the benefit of progressive scanning even if your DVD player does not have it. Other video technologies include 216MHz/12-bit Video D/A Conversion, Motion Adaptive Noise Reduction, Cross Color Suppression, Aspect Ratio Conversion, a Time Base Corrector that prevents the wavy distortion seen in video tapes and TrueLife Enhancer by Faroudja that brings out details in the picture producing a more lifelike image.



YGV-619 video processor LSI (Yamaha original)



## RX-Z9 Digital Video Processing Board

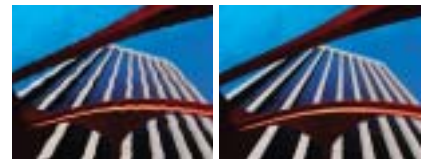
All digital video processing circuitry is on a single board, housed in its own separate chamber to completely avoid interference from other circuitry.

## HDTV (720p/1080i) Compatible Component Video Monitor Out

The frequency response of the component video monitor out signal is an extremely wide 5Hz-100MHz (RX-Z9; RX-V2600 and RX-V1600; RX-V757, RX-V657, RX-V557 and RX-V457 are 5Hz-60MHz), ensuring compatibility with HDTV (1080i/720p) monitors.

## Image Adjustment (RX-Z9)

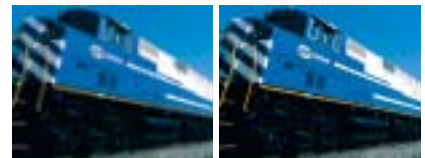
To ensure that the high quality image looks precisely the way you want it to, the RX-Z9 includes an extremely detailed Image Adjustment function. You can select three modes, Cinema, Standard or Dynamic, and within those modes, you can "fine-tune" five parameters: Enhancer, 3D NR, Contrast, Brightness and Saturation. You can then store your final adjustments in the user memory for recall at any time.



Time Base Corrector Off (Left) vs. Time Base Corrector On (Right)



Before TrueLife Enhancer (Left) vs. After TrueLife Enhancer (Right)



DCDi Off (Left) vs. DCDi On (Right)



Without Film Mode (Left) vs. With Film Mode (Right)

Above images are simulated.





# Surround Realism

## Yamaha CINEMA DSP Digital Technology

Conventional multi-channel systems base their sound on Dolby Digital and DTS decoding, using relatively simple matrix and steering techniques to create surround sound effects. Yamaha's CINEMA DSP Digital technology is much more sophisticated. It naturally decodes the Dolby Digital and DTS movie sound formats, but it also draws on a huge memory of real-world data from actual venues (especially for the music programmes) and input from movie sound technicians. This data is stored and processed on Yamaha-developed LSIs, the most powerful audio chips in the world.

## Way Beyond Ordinary Surround Sound

Our latest technology, Quad-Field CINEMA DSP actually creates four independent sound fields (front, surround left, surround right and surround back) that merge to envelop you in an unmatched surround sound experience. You hear movies and music with accurate sound localization, smooth movement across the sound space, exceptional clarity and remarkably realistic presence. It will seem as if the walls of your room have disappeared and you are in the middle of your own immense theater!

## Yamaha Uses Actual Sound Field Data

Yamaha developed a technique called Single Point Quad Miking to precisely capture the acoustic patterns of sound spaces. This complex data is stored and processed on extremely sophisticated LSIs designed and manufactured by Yamaha.

## High Definition CINEMA DSP Technology (RX-Z9)

The RX-Z9 has six times greater DSP capacity than previous models, thanks to an increase from 48kHz to 96kHz/24-bit A/D converters that can accept 96kHz signals for direct digital conversion and processing. Higher density processing enables approximately triple the amount of early reflection data to be handled, for significantly richer surround sound performance.

## Yamaha's Exclusive 32-Bit Floating Point Quantization LSI

The powerful LSI performs all Dolby Digital and DTS decoding with extreme accuracy, as well as all digital sound field processing, capabilities that previously required two or more chips. It also outperforms other chips in the precise synchronization of images and sound.



## Night Listening Enhancer and SILENT CINEMA

During low-volume listening, such as late at night, dynamic range suffers and you may miss some sounds. The Night Listening Enhancer offers two modes, Cinema and Music, with three-level selectability, which will ensure that you don't miss movie dialogue or quiet passages, or lose overall surround spaciousness. It works for all surround programs, including Dolby Pro Logic IIx.

The SILENT CINEMA mode allows private

listening enjoyment of multichannel music or movies, with an accurate simulation of surround sound, through ordinary headphones.

**SILENT<sup>TM</sup> CINEMA**



## CINEMA DSP

### Programmes and THX Programmes

One of the main advantages of CINEMA DSP is the large choice of sound field programmes available. The basic programme for movies is Enhanced, which greatly improves the sound of the surround fields. The "largest" of these sound fields is Spectacle, which recreates the open feeling of large-scale, epic motion pictures. The Sci-Fi, Adventure and General programmes provide the optimum sound fields for those movie genres. There are also THX programmes\*.

\* THX Ultra2/Select2/Select are the surround programs for home use, based on the THX Theater processing developed for movie theatre surround sound.

## Audio Delay for Adjusting Lip-Sync

A Yamaha LSI provides synchronization of images and sound, which is called lip-sync. The video signal goes through the video processor circuit before it is displayed, which takes time, so it lags behind the audio. The LSI accurately aligns them and even allows the lip-sync parameters to be adjusted using the Audio Delay mode.

## Conventional 7.1-Channel Systems



## Quad-Field CINEMA DSP

**CINEMA DSP**  
DIGITAL



Surround Left  
Sound Field

## Presence (Front Line) Sound Field

Dialogue Effect Music

Surround Back  
Sound Field

Surround Right  
Sound Field

# Advanced Facilities

## Custom Installation Compatibility (RX-Z9, RX-V2600, RX-V1600, RX-V757, RX-V657, RX-V557, RX-797 and RX-497)

With these receivers, Yamaha has made it extremely convenient to set up a multi-room custom installation. And given you the ability to do it in a variety of ways. Now you can have sound in various rooms of the house without the need to purchase a lot of extra components.

### • RX-V2600 and RX-V1600

Power amp channels can be assigned for Zone 2 and Zone 3 without the need for extra amplifiers. Plus, you can receive AM and FM broadcasts simultaneously. In addition, one programme can be played in the Main Zone, while a different programme is played back in Zone 2. You can control Main/Zone 2/Zone 3 power, FM/AM tuning and input select on the front panel, along with a Zone 2 on-screen display. There is Zone 2/3 tone control and even a separate Zone Remote Unit. There is also an RS-232C interface for a touch-panel controller.



Zone remote unit  
(RX-V2600)

### • RX-Z9, RX-V757, RX-V657 and RX-V557

These receivers deliver audio output to Zone 2. Zone 2 power amplifier assignability and speaker terminals mean that Zone 2 can be fully independent with its own 2-channel power, while

you still enjoy 5.1-channel sound in the main room (except RX-V557).

### • RX-797 and RX-497

The RX-797 and RX-497 have a Zone 2 output so the audio/video signal can be heard in a second room. In addition, you can enjoy audio in 3 different zones by using main zone speaker output, Speaker B output, and zone 2 audio/video output (RX-497: audio only). There is also a Main/Zone 2 power switch, 2-in/1-out remote terminals (RX-497: 1-in/1-out) and control out.

### GUI On-Screen Display with Dedicated Remote Control (RX-Z9 and RX-V2600)

The RX-Z9 and RX-V2600 have the best looking and easiest to use on-screen display you've ever seen. This is due in part to the high quality video circuitry, which provides sharp, clear images. The GUI (Graphical User Interface) includes extensive yet easily understandable setup menus and has been designed to make it easy to select and adjust desired functions.

And to further simplify operation, The RX-Z9 has provided a second remote control dedicated to GUI use. The large round cursor control in the centre makes it easy to navigate the on-screen menus and enter desired commands. It also has



RX-Z9 GUI remote unit

power, volume and mute buttons.

### YPAO Sets the Best Sound for Your Room – Automatically! (RX-Z9, RX-V2600, RX-V1600, RX-V757 and RX-V657)

YPAO uses a small microphone and advanced processing technology to analyze room acoustics. It then automatically adjusts various speaker parameters for optimum sound quality at the listening position.



It works in only three minutes and extremely easy to use. With YPAO, you do not have to worry about careful speaker placement and will be assured of "professionally calibrated" surround sound quality.



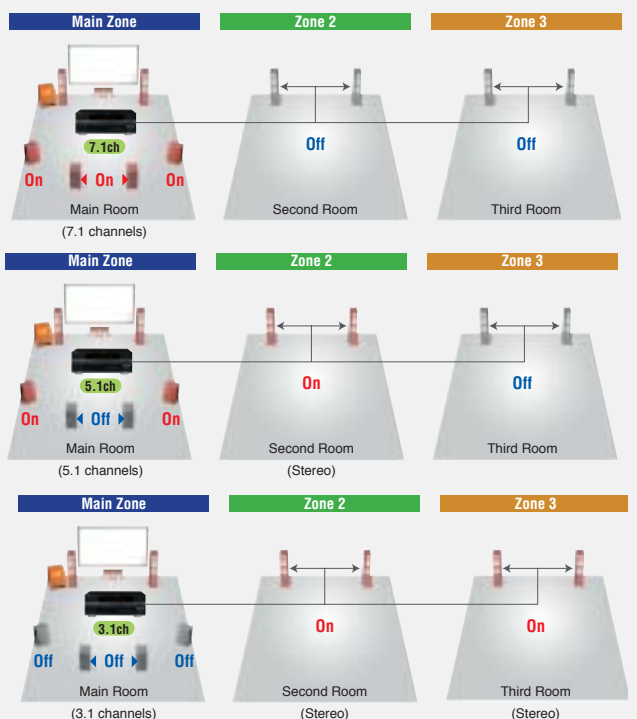
RX-Z9 optimizer microphone

### Subwoofer Crossover Selection / Subwoofer Phase Select (RX-Z9, RX-V2600, RX-V1600, RX-V757, RX-V657, RX-V557 and RX-V457)

These receivers provide a choice of nine subwoofer crossover frequencies: 40, 60, 80, 90, 100, 110, 120, 160 and 200Hz. In addition to providing a wider range than other receivers, the steps from 80 to 120Hz are only 10 Hz apart for more precise selection. Another feature for optimum bass sound. If bass is weak or muddy, switching the phase of the subwoofer will often improve performance (except RX-Z9).

## Two Ways to Enjoy Sound in Your Home (RX-V2600 and RX-V1600)

Naturally, you can begin with one configuration and switch to another at some time in the future. For multi-room custom installations, power amp channels can be assigned in two ways: five for the Main Zone and two for Zone 2 (for 5.1 channel sound in the main room), and three for the Main Zone and two each for Zones 2 and 3 (for music in all three rooms without the need for extra amplifiers).



### Convenient Zone Controls (Depending on the Models)

A Zone Control button on the front panel allows you to select Zone 2 or Zone 3. You can then use the control buttons on the front panel or on the remote control to select the input source for either zone, adjust the volume of either zone, adjust the tone quality of either zone, select FM or AM when Tuner is the input source.



### RX-V2600 GUI On-Screen Display

You can select of five display languages: English, Spanish, French, German and Japanese.



## Building Speakers for "Natural Sound"

When planning a high quality home theatre system, speakers should not be merely an afterthought. The better the speakers, the more fully realized the surround sound effect will be. At Yamaha, we build speakers based on a concept of achieving "natural sound," so movies, concerts and anything you listen to sounds amazingly realistic and lifelike. We accomplish this by ensuring that our speakers have wide and flat frequency response, wide dynamic range, high S/N ratio and extremely clarity in the dialogue/vocals range.

### Yamaha's Exclusive Advanced PMD Cone for Natural Sound Reproduction (525 A-PMD Series)

The Advanced PMD (Polymer-injected Mica Diaphragm) cones are 15% lighter than previous types, thanks to the use of a low specific gravity material called PMP (Poly-Menthyl-Penten) that provides faster response (speed of sound rise and fall). Internal loss has been increased by 43%, lessening unwanted resonances to achieve the smooth frequency response that results in natural-sounding vocals.

### Aluminium Diecast Baskets (525 A-PMD Series)

Aluminium provides three to five times higher flexural strength than the usual metal or plastic types. In addition, the baskets are 43% thicker than conventional baskets with the same diameter. By

increasing stiffness and suppressing unwanted resonance, detailed musical nuances can be more clearly heard.

### WSD Cone Midrange and Woofer (HX Series)

Yamaha's White Spruce Diaphragm (WSD) material emerged from an intensive search for a light, tough diaphragm material that would help us achieve ideal home cinema sound. The pulp material used for the WSD is manufactured almost entirely from long fibres of Canadian evergreen white spruce, the world's lightest single-sheet diaphragm material.

### Aluminium Diecast Baskets (525 A-PMD Series)

Aluminium provides three to five times higher flexural strength than the usual metal or plastic types. In addition, the baskets are 43% thicker than conventional baskets with the same diameter. By increasing stiffness and suppressing unwanted resonance, detailed musical nuances can be more clearly heard.

### Waveguide Horn (HX and EF Series)

Modern movie theatres are designed to offer a highly absorptive acoustic environment in which soundtrack recordings with five or more channels can be used to achieve a rich sense of spatial expression. To achieve a similar level of spatial expression at home, it is therefore necessary to use speakers with a direct/reflected sound ratio that is quite different from the speakers used for conventional music recordings.

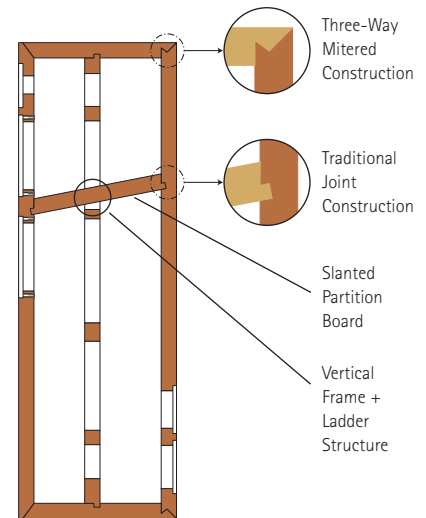


Waveguide Horn (NS-8HX)

### 3cm Aluminium Dome Tweeters with DC Diaphragm™ and New Frame (525 A-PMD Series)

The high-performance tweeter features a dome made of an aluminium, with a DC Diaphragm that integrates the diaphragm and voice coil. The magnet is a new extra-powerful neodymium type.

### Innovative Two-Separate Chambers with Vertical and Slanted Partitions for Strong Structure Restricts Vibration (NS-525F)

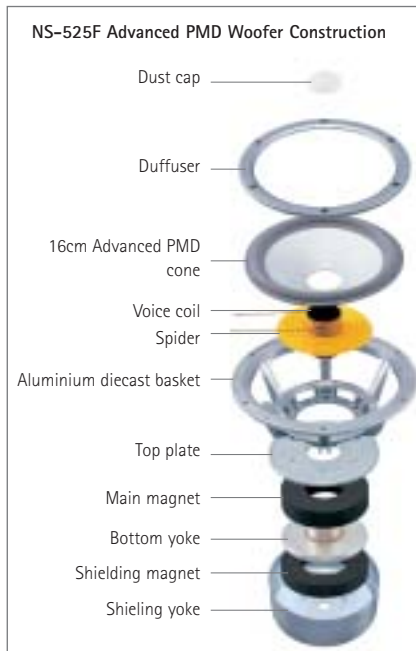


As a result, the tweeter is extremely light to minimize sound loss, yet is highly durable. It is capable of reproduction all the way up to 100kHz, which is exceptional performance for a 3cm dome tweeter. Highs are crisp and clear even at high power levels.



### Innovative Two Separate Chambers with Vertical and Slanted Partitions (NS-525F)

The cabinet has two separate chambers for the three drivers. The interior has vertical and slanted partitions to decrease standing waves. This construction also increases strength for less unwanted vibration and sound reproduction with a greater feeling of depth.



### How Yamaha Achieves Our "Ideal" Sound.

The key to achieving the purest, most natural, and most pleasing sound is balance. Balance among the above three elements, balance among all the components that make up the speaker, and balance among subjective listening judgments.

### Testing and More Testing

Yamaha tests speakers in various ways, both before and after production. Each part of the speaker, be it a coil, a capacitor, or a cabinet, is selected out of many alternatives, which may be tested for months before a

decision is made. In the case of cabinets, for example, we often build 50 to 60 cabinets and test each one. In order to test many cabinets with many drivers in many configurations, we begin with computer simulations, then move to actual prototypes for measuring a myriad of factors, such as the variations of standing waves inside the cabinet. An anechoic chamber is used to obtain precise acoustic data on pre-production models. Even speaker finishes are rigorously tested for durability and how they influence the sound. We have an environmental room where speakers are tested for 500 hours in Amazon rain forest conditions, and five different listening rooms,

where speakers are carefully evaluated reproducing a variety of music and movie sources.




















### The Final Judgment

Throughout the design process and especially in the final phase, our most important test equipments are the ears of our speaker experts. Having hard data is helpful, but deciding which cabinet sounds "better" and whether the speaker meets Yamaha's high standards can only be done by the "golden ears" of Yamaha speaker designers who have dedicated their lives to the pursuit of beautiful, natural sound.

1. Many cabinets are built and tested for each speaker series.
2. A testing room that simulates an actual listening room.
3. A wide range of parameters are tested.
4. Speakers undergo harsh environmental testing.



## MAIN AWARDS (Oct. 2004–Aug. 2005)

Product	Area	Publication	Issue	Recommendation	
<b>Digital Sound Projectors</b>					
YSP-800	Europe	EISA	Aug. '05	BEST PRODUCT 2005-2006 HT INNOVATION	
YSP-1	USA	G4 TECH TV	Jan. '05	Best of CES 2005, Best of Audio & Video Essentials Category	
YSP-1	USA	Pupular Mechanics	Jan. '05	Editor's Choice Awards	
YSP-1	Australia	Sound & Image Magazine	2005	Most Innovative Product of the Year	
YSP-1	UK	Home Cinema Choice	May '05	Best Buy	
YSP-1	UK	What Home Cinema	Issue30	Best Buy	
YSP-1	UK	T3	May '05	Gold Award	
YSP-1	UK	Home Cinema Choice	May/June '05	Innovation of the Year	
YSP-1	Germany	HiFi Test	May '05	Spitzenklasse (=Top Class) hervorragend (=Outstanding)	
YSP-1	Germany	AUDIO	Mar. '05	Sehr gut (=Very Good)	
YSP-1	Germany	stereoplay	Mar. '05	HIGHLIGHT	
YSP-1	France	Home Cine DVD	Apr. '05	HOME CINE DVD MEGASTAR	
YSP-1	Portugal	Video & DVD	Apr. '05	★★★★★	
YSP-1	Portugal	Casa Digital	June '05	Better Performance Prize	
<b>Cinema Projectors / Plasma Display Monitor</b>					
DPX-1200	France	REVUE DU SON	July '05	★★★★★ Recommended REVUE DU SON	
DPX-1200	Germany	video	June '05	Hervorragend (=Outstanding)	
LPX-500	Brazil	HOME THEATER	2004	Best LCD Projector Award	
PDM-4210	Australia	Audio & Video Lifestyle Magazine	2005	2005 Best Buy Awards, Best Plasma Screen	
<b>AV Receivers / Amplifiers</b>					
RX-Z9	USA	Sound & Vision	2004	The Winner of Annual Reviewer's Choice Awards	
RX-Z9	Australia	Audio & Video Lifestyle Magazine	2005	2005 Best Buy Awards, Best Home Theatre Receiver over A\$2,000–3,999	
DSP-Z9*	Portugal	Video & DVD	Apr. '05	Home Cinema Chois: Best Buy	
DSP-Z9*	Taiwan	PRIME AV	Jan. '05	Best Performance in 2005	
RX-V2500	Germany	areaDVD Internet Magazine	Jan. '05	★★★★★	
RX-V2500	Germany	AudioVision	Mar. '05	Sehr gut / Preistipp	
RX-V1500	UK	What HI-FI? Sound and Vision	Dec. '04	★★★★★	
RX-V1500	Germany	DVD vision	Jan. '05	KAUFTIPP	
RX-V1500	Germany	AREA DVD	Dec. '04	★★★★★	
RX-V1500	Taiwan	PRIME AV	Feb. '05	Best Recommended	
RX-V757	Germany	stereoplay	Aug. '05	Ueberragend (=Superior)	
RX-V657	Germany	audio vision	July/Aug. '05	Sehr gut (=Very Good)	
RX-V650	Germany	AudioVideo Foto Bild	Dec. '04	Best Cost Performance	
RX-V650	Taiwan	PRIME AV	Dec. '04	Best Recommended	
RX-V650	Sweden	Hemmabio		Test Winner	
RX-V557	Germany	stereoplay	July '05	Sehr gut (=Very Good)	
RX-V450	USA	Sound & Vision	2004	The Winner of Annual Reviewer's Choice Awards	
RX-V450	Germany	stereoplay	Dec. '04	Sehr gut (=Very Good)	
RX-V450	Sweden	Hemmabio		Test Winner	
<b>DVD Players</b>					
DVD-S2500	Germany	AREA DVD	Internet Magazine	★★★★★	
DVD-S1500	Germany	AUDIO	Mar. '05	Test Winner	
DVD-S1500	Sweden	HiFi Musik	Feb. '05	Pure, Elegant Sound	
DVD-S550	Sweden	Hemmabio	Nov. '04	Test Winner	
DVD-S550	Norway	Lyd&Bilde	Nov. '04	Superb Player	
<b>DVD Player and AV Receiver</b>					
DVD-S550+RX-V650	UK	What HI-FI? Sound and Vision	Mar. '05	★★★★★ Super Test Winner	
DVD-S550+RX-V1500	UK	What HI-FI? Sound and Vision	Nov. '04	★★★★★ Mega Test Winner	
<b>Systems</b>					
DVX-S650	USA	TIME	2004	One of the Most Amazing Inventions of 2004	
MusicCAST (MCX-1000)	Australia	Smart House Magazine	2005	Best of the Best Awards, Best Music Server	
PianoCraft (MCR-E500)	Australia	Smart House Magazine	2005	Best of the Best Awards, Best Micro System	
PianoCraft (CRX-E400)	Germany	AUDIO	July '05	Test Winner	
<b>Amplifier</b>					
MX-D1	Germany	stereo	Mar. '05	★★★★ Excellent	

\* The DSP-Z9 provides the same performance and features as the RX-Z9 except for tuner functions.

**Outside Australia, availability varies by country. Please contact your local dealer.**

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Fax: 302932

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**YAMAHA**

CREATING 'KANDO' TOGETHER

YAMAHA CORPORATION  
P.O. Box 1, Hamamatsu, Japan



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